Cellular Routers & Gateways
for Industrial IoT & Enhanced Networking

✓ 5G / 4G LTE connectivity
✓ Key features overview
✓ Networking capabilities
✓ Management software
✓ Case studies

Newly
2025
updated

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Cellular Routers & Gateways

5G / 4G LTE / 3G HSPA+ / UMTS / EDGE / GPRS

Flexible, effective and secure networking

Advantech routers enhanced functionality incorporates self-diagnostics and an HW watchdog to ensure secure and consistent operation and ultra-reliable wireless connections. With multi-SIM card holders and automatic failover routers provide wireless redundancy for critical applications along with SMS/email messaging and control capability for remote alerts and reset. They support the most commonly used LAN/WAN network protocols. The goal is flexibility, effectiveness, and security in a large variety of applications.

Advantech routers are based ICR-OS operating system (Linux Kernel) that combines the simplicity of a web-based configuration with the flexibility of an open platform that allows the development of custom configuration scripts and RouterApps (software User Modules). ICR-OS serves also as a gate for router integration into additional monitoring and security software platforms – WebAccess/DMP. This platform enhance router security of communication, remote management, and hardware/software monitoring while increasing significantly user comfort and stability in operated networks.

Feature and platforms overview

Hardware Platform v4		5G & LTE Advanced High Speed Routers	**Quad-Core CPU 1.2 GHz** RAM 1024 MB 5 × 10/100/1000 Ethernet, PoE, SFP, RS232, RS485, CAN, GPS, I/O, WIFI	supported - 838 MB space ICR-OS RouterApp docker Node-RED python
Hardware Platform v4i		5G & LTE Advanced High Speed Routers	**Quad-Core CPU 1.6 GHz** RAM 1024 MB 2 × 10/100/1000 Ethernet, RS232, RS485, GNSS, I/O, WIFI	supported - 3.35 GB space ICR-OS RouterApp docker Node-RED python
Hardware Platform v3		4G Powerful Routers	**CPU 1 GHz** RAM 512 MB 2 - 5 × 10/100 Ethernet, PoE, RS232, RS485, GPS, I/O, WIFI, Bluetooth	supported - 128 MB or 838 MB space according to model specification ICR-OS RouterApp docker python
Hardware Platform v2i		4G Entry Level Industrial Routers	**CPU 600 MHz** RAM 128 MB 1 - 4 × 10/100 Ethernet, RS232, RS485, I/O	supported - 12 MB space or 838 MB space according to model specification ICR-OS RouterApp python
Hardware Platform v1		4G / 5G Connectivity Gateways	2 - 5 × 10/100/1000 Ethernet, RS232, RS485, I/O	supported - 80 MB space ICR-OS RouterApp python

Networking

- DHCP: automatic IP addressing in LAN network
- NAT/PAT: IP address and port translation
- VRRP: virtual backup router function
- DynDNS client: access to the dynamic IP address
- VLAN 802.1Q: virtual LAN
- QoS: quality of service
- PPPoE Bridge: PPP over Ethernet Bridge mode
- NTP client, NTP server: time synchronization
- Dynamic routing protocols: BGP, OSPF, RIP, IS-IS, NHRP
- MODBUS RTU/TCP gateway and mapping: convert data from RTU to TCP/IP format
- Backup routes: back up of the primary connection with alternative connections to the Internet (mobile network) or enabling Multiple WANs mode
- Dual stack IPv4 and IPv6 support
- Load balancing: the weight for every router interface can be set

Multiple SIM for carrier failover

- Back-up by switching between up to 2 independent mobile carriers according to router model
- Switch when data limit is exceeded, when roaming is detected or by any other programmable option
- Embedded SIM optional

VPN Tunneling & Security

- IPSec, OpenVPN, PPTP, L2TP, EasyVPN, GRE, WireGuard
- Authentication by certificates, shared keys, name/password, RADIUS, 2FA
- HTTPS, SSH, SFTP, DMZ
- Firewall: filtering of addresses, ports, protocols
- TPM 2.0 secure chip for selected models
- PCI DSS compliance

Diagnostics

- Status – Signal Strength, Data Usage, Detailed Long Term Statistics
- One CLICK report – Current Configuration,Factory Identification, Routing Table
- Log – System Log, Reboot Log, Kernel Log
- SNMP: router diagnostics, communication with I/O
- LED indication: signal strength, connection status, ports, customer's application LED

Event Engine and SMS & E-mail Info

- StartUp script & Up/Down script: possibility to customize rules based on digital inputs status, network parameters, data usage, timer, power, device temperature etc.
- Information about status, connection or disconnection and many other parameters
- SMS control: on/off connection, switching SIM, router profile, I/O
- SMS communication: AT commands (RS232 and TCP/IP), I/O or HTTP
- SNMP traps

Application Development

Based on Linux Kernel Advantech cellular routers & gateways combines the simplicity of a web-based configuration with the flexibility of an open platform that allows the development of custom configuration scripts and RouterApps (software User Modules).

- Open Linux, BASH
- Python, C/C++
- Node-RED
- Docker Containers

Remote Router Supervision & Mass Network Management

- HTTP/HTTPS, Telnet/SSH for local and remote configuration and firmware updates via WAN, locale configuration and firmware updates via LAN
- Schedule automatic configuration and firmware updates from your FTP/HTTP servers, Backup & Restore configuration
- Up to 4 independent configuration profiles can be stored and remotely switched using scripts, SMS messages, I/O, etc.
- Additional management, monitoring and security software platforms WebAccess/DMP

ICR-4400

5G & LTE Advanced High Speed Routers

- 5G NR and 4G/LTE-A Cat.12 options
- Quad-core CPU with 1 GB RAM
- 2× SIM, Embedded SIM Ready, TPM 2.0
- 5× Gigabit Ethernet (Optional 4 × PoE + PSE)
- SFP cage for SFP modules up to 10 Gbps
- GNSS Receiver, Micro SD Card
- RS232, RS485, CAN BUS, 2× DI, 2× DO, USB Host
- Optional 2×2 WiFi 802.11ac
- Robust metal cover with wall and DIN mount options
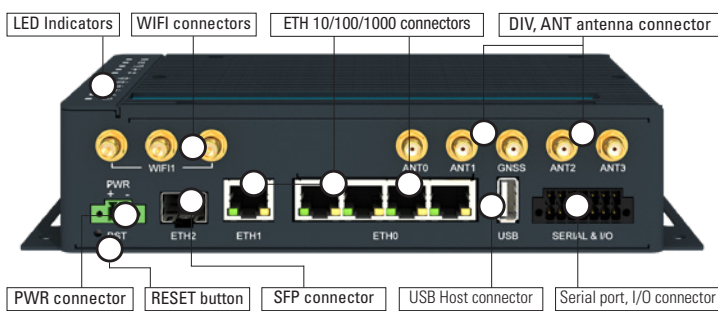- Wide operational temperature range

Introducing the **ICR-4400** - powerful industrial router and IoT gateway seamlessly merging advanced router features with IoT gateways in a single robust design. Tailored for edge intelligence, it offers versatile connectivity options, including Ethernet, USB, microSD, serial lines, CAN Bus, SFP cage, I/Os, GNSS, and optional WIFI. Ideal for high-speed, low-latency connectivity in global IoT, industrial, and security applications Powered by ICR-OS Linux, the router ensures a wide array of standard and enhanced networking features.

With a secure web interface and remote configuration, multiple profiles, automatic firmware updates and customizable software environments make the **ICR-4400** dynamic edge computing gateway. Explore flexibility with standard web config, Linux scripts, AT commands, and Router Apps (User Modules) available for download directly in the router web interface.
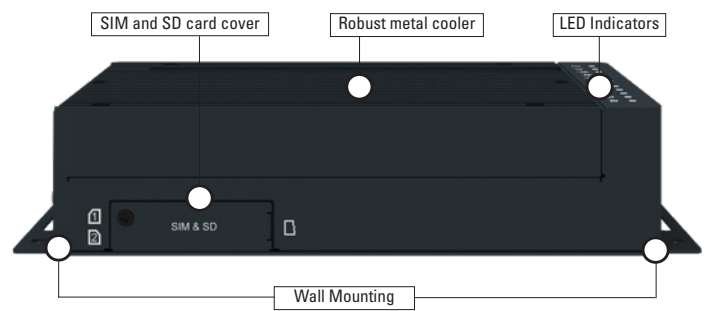
Designed for rugged environments, the **ICR-4400** operates in temperatures from -40 to +75 °C and accepting a voltage range of 9 V DC to 48 V DC. Cellular router models feature dual SIM readers and support an optional Embedded SIM in a form of MFF2 chip (MFF2 chip needs to be delivered by customer) or plastic 2FF miniSIM. Encased in a durable metal housing it offers easy management through WebAccess/DMP simplifying mass deployments.

The **ICR-4400** series comprises of 5G models (**ICR-4453, ICR-4461**) and LTE Advanced Cat.12 model (**ICR-4434**). Available also as the non-cellular model **ICR-4401**. Technology and components used makes the platform perfect for secure and scalable deployments with a wide and diverse hardware connectivity needs from traffic and security cameras to LAN networks, industrial systems, and self-service terminals.
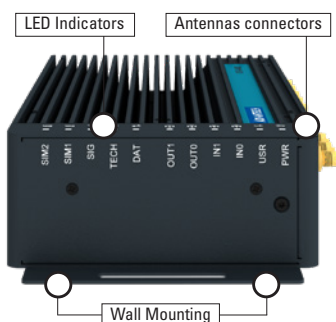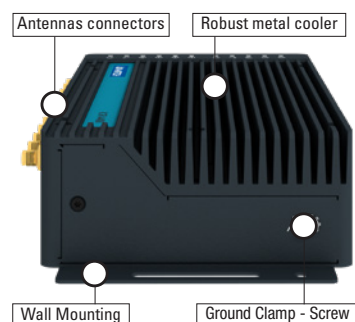
FRONT VIEW

LED Indicators | WIFI connectors | ETH 10/100/1000 connectors | DIV, ANT antenna connector
PWR connector | RESET button | SFP connector | USB Host connector | Serial port, I/O connector

REAR VIEW

SIM and SD card cover | Robust metal cooler | LED Indicators
Wall Mounting

LEFT SIDE VIEW

LED Indicators | Antennas connectors
Wall Mounting

RIGHT SIDE VIEW

Antennas connectors | Robust metal cooler
Wall Mounting | Ground Clamp - Screw

ICR-4100/4200

5G & LTE Advanced High Speed Routers

- 5G NR and 4G/LTE-A Cat.6 options
- Quad-core CPU with 1 GB RAM
- 2 × SIM, eSIM Ready, TPM 2.0
- 2 × Gigabit Ethernet, 1.5 kV isolation
- GNSS Receiver, Micro SD Card
- RS232, RS485, 4 × DI, 2 × DO, USB Host 3
- Robust metal cover with wall and DIN mount options
- Wide operational temperature range
- Optional Tri-Band WIFI 6
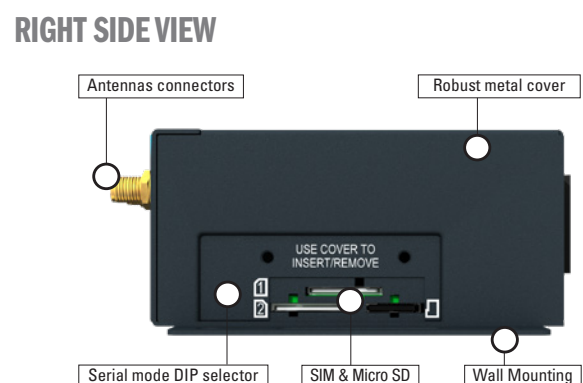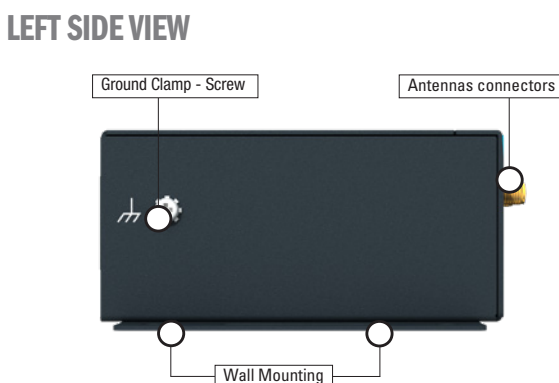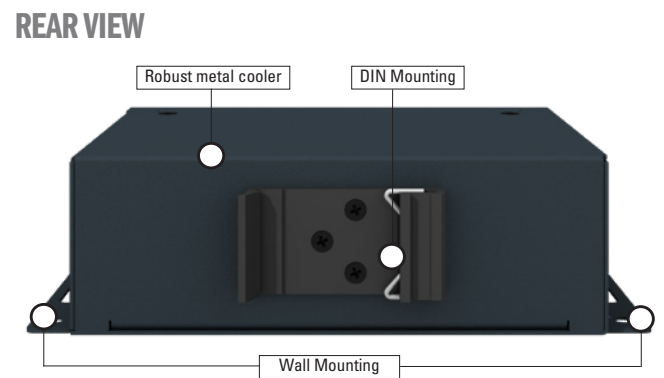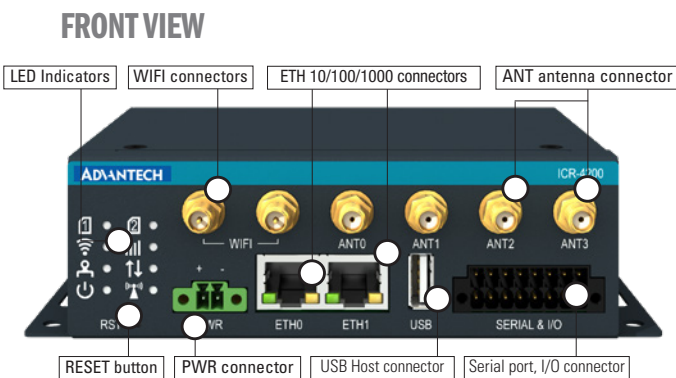- Extra large space for Router Apps and customer data 2.29 GB

Introducing the **ICR-4100/4200** – the ultimate solution for global industrial applications providing swift data transfer, low latency, and robust network connectivity in 5G or 4G/LTE Advanced Cat.6 networks. Built on a strong hardware platform and 3.35 GB space for applications, the **ICR-4100/4200** represents superior performance and high value for user. Equipped with two Gigabit Ethernet ports, USB 3.0, GNSS receiver, dual SIM readers and added optional flexibility containing dual serial ports, digital inputs/outputs, and WIFI 6 (2×2 MIMO) it offers necessary versatility wide pool of applications. TPM 2.0 and Tamper Button ensuring the integrity and safety of data transmission in critical infrastructure environments.

The **ICR-4100/4200** series prioritizes user-friendly interface enabling remote configuration and management.

With support for multiple profiles, automatic firmware updates, and customizable software options businesses can tailor routers to specific needs seamlessly integrating the device into existing or new systems. Effortless management is further streamlined with WebAccess/DMP, comprehensive tool simplifying network scalability and maintenance of routers.

ICR-4100/4200 router family represents a significant advancement in industrial networking – offering gigabit Ethernet speed, low latency, and high network availability. Combining powerful performance, robust security and easy management is **ICR-4100/4200** router family the perfect solution for demanding industrial applications in verticals like energy, video surveillance, machine building, kiosks/self machines, transportation, smart cities and many more.

FRONT VIEW

LED Indicators | WIFI connectors | ETH 10/100/1000 connectors | ANT antenna connector

RESET button | PWR connector | USB Host connector | Serial port, I/O connector

REAR VIEW

Robust metal cooler | DIN Mounting

Wall Mounting

LEFT SIDE VIEW

Ground Clamp - Screw | Antennas connectors

Wall Mounting

RIGHT SIDE VIEW

Antennas connectors | Robust metal cover

USE COVER TO INSERT/REMOVE

Serial mode DIP selector | SIM & Micro SD | Wall Mounting

Platform v3

ICR-3200

4G Powerful Routers - ICR-3200 & SmartFlex

- 4G LTE Cat.4, Cat. M1 VPN Gateway for Industrial IoT applications
- Powerful CPU with 1.3 GB storage to host SW applications
- 2× SIM with cover, Embedded SIM ready
- 2× Ethernet 10/100, 1× RS232, 1× RS485 and I/O
- Optional WIFI 802.11ac using MIMO technology
- Optional Bluetooth v5.1 (class 1)
- Optional GNSS receiver
- Robust metal cover with DIN and Wall mount options
- Operational temperature range from -40 °C to +75 °C
- Backup real time clock, sleep mode & Power ignition

Introducing the **ICR-3200** – perfect industrial solution for connecting IP or serial devices to 4G/LTE cellular networks. Ideal for diverse applications like kiosks, industrial PCs, HMIs, CCTV monitoring and more.
With LTE Cat.4 speeds up to 150 Mbps download and 50 Mbps upload it meets high-data demand needs of the current systems. Available also as LTE Cat M1/NB IoT version specifically to IoT and M2M applications. **ICR-3200** providing two Ethernet 10/100 ports, RS232/RS485 serial ports, digital I/O connectivity, backup real-time clock, sleep mode support and dual SIM. Optionally GNSS, WIFI, and Bluetooth v5.1 (class 1 configurable via Node-RED). The router supports VPN tunnel set up using various protocols including IPsec, OpenVPN, WireGuard etc. to ensure safe communications.
The **ICR-3200** places intelligence at the network edge with an extremely powerful Cortex A8 CPU and 1.3 GB for customer data and applications. **ICR-3200** supports WebAccess/DMP configuration and monitoring tool.

SmartFlex

4G Powerful Routers

- Powerful CPU to support high demand customer applications
- Extended operational temperature range from -40 °C to +75 °C
- 10-60 V DC, reverse polarity voltage protection
- Flexible port options for SmartFlex router family
- Twin cellular module capability for SmartMotion router family
- GPS and GLONASS support
- MicroSD card holder
- Low power mode for solar and battery power applications
- PoE PD, PoE PSE, In/Out, USB Host
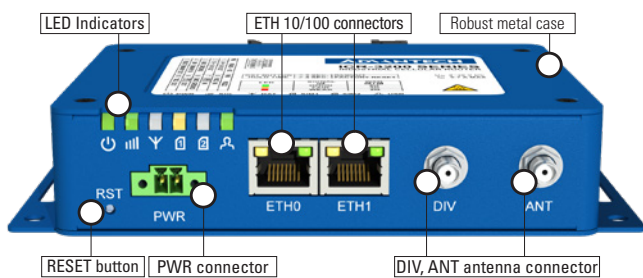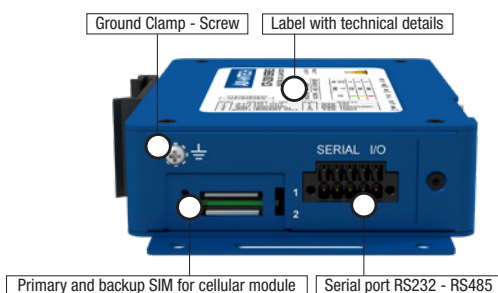- Advanced security features (VPN, firewall etc.)

Introducing the **SmartFlex SR30x/31x** – industrial versatile routers and IoT gateways for connecting IP or serial devices via cellular network. Operating in 4G/LTE Cat. 4 networks routers provide secure connectivity for devices and LANs.A secure web interface allows users to configure and manage routers from remote locations.

The **SmartFlex** standard hardware configuration includes 2× Ethernet 10/100 ports with 2 independent LANs/IP addresses, 1× USB 2.0 host port, 1× microSD card holder, 2× SIM cardholders for automatic failover to an alternate service provider/providers, 2× binary inputs (I/O), 1× binary output (I/O) and onboard GPS. Optionally available industrial grade WIFI or POE PSE/PD support on Ethernet ports.

For **SmartFlex** there are available optional hardware boards that extend port flexibility for additional Ethernet, RS232 and RS485 interfaces – take a look at the website for current options. The series is powered by Linux based ICR-OS routers and is supported by WebAccess/DMP.

ICR-3200
FRONT VIEW

- LED Indicators
- ETH 10/100 connectors
- Robust metal case
- RESET button
- PWR connector
- DIV, ANT antenna connector

LEFT VIEW

- Ground Clamp - Screw
- Label with technical details
- Primary and backup SIM for cellular module
- Serial port RS232 - RS485

SMARTFLEX
FRONT VIEW

- WIFI antenna connector *optional
- ANT, DIV antenna connector
- *optional - RS232, ETH - RS232 - RS485, RS232 - RS485, 3-port SWITCH
- GPS antenna connector
- IN0, IN1, OUT
- Ethernet 10/100 ports
- USB Host
- Power connector

REAR VIEW

- Primary SIM
- Secondary SIM
- SD card slot
- DIN holder
- RESET button

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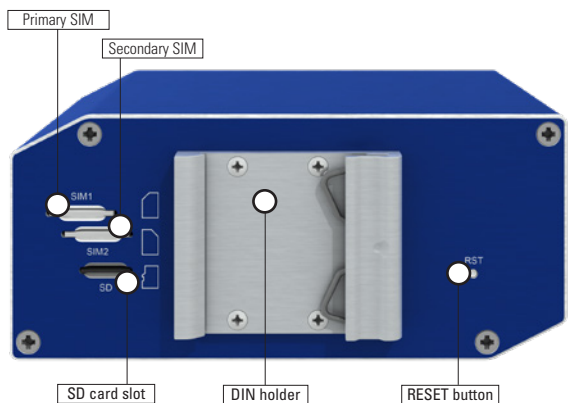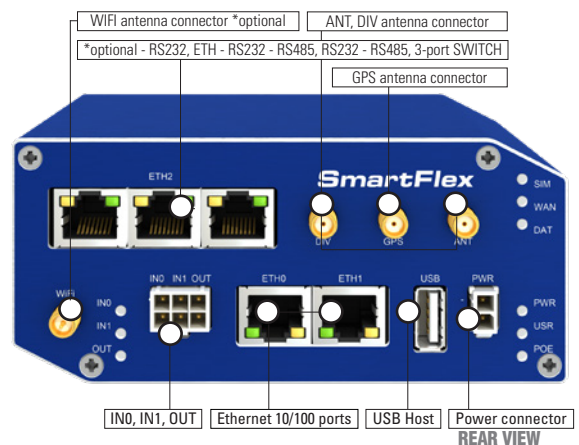
WebAccess/DMP

Industrial Router Network Management - Powerful, Flexible, and Secure

WebAccess/DMP provides **centralized management** for your routers, allowing **remote configuration** and monitoring with **customizable dashboards** and **alerts**.

It enhances security with **two-factor authentication** and **PKI encryption.** Complementing this, **VPN Management** simplifies network connectivity by automating VPN setup across diverse networks.

Leveraging **WireGuard VPN** for its **speed** and **security**, it streamlines **network management** with features like **zero-touch provisioning**, flexible router grouping, and independent interface settings. This integrated solution **enhances network security**, simplifies operations, and empowers businesses with **greater control and visibility** over their network infrastructure.
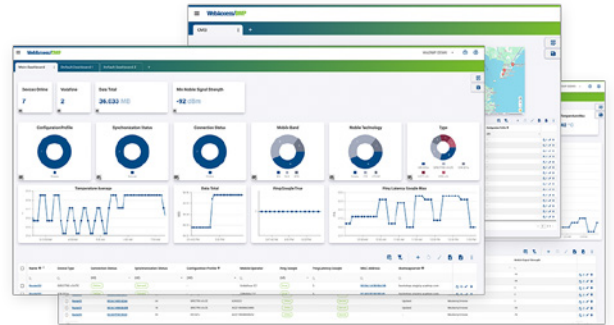
POWERFUL

VPN Management

Digital Twin Model

Configuration Profile Management

Ping Tools

Efficient Data Handling

Zero Touch Deployment

FLEXIBLE

Customizable and Versatile Dashboard

Multi-Dashboard

Multi-Tenancy

Monitoring Customization

Geographical Mapping

SECURE

Encrypted communication

Auditing

Two-factor Autorization

Fine-Grained Permission Control

Alerts

PKI for Mutual Authorization
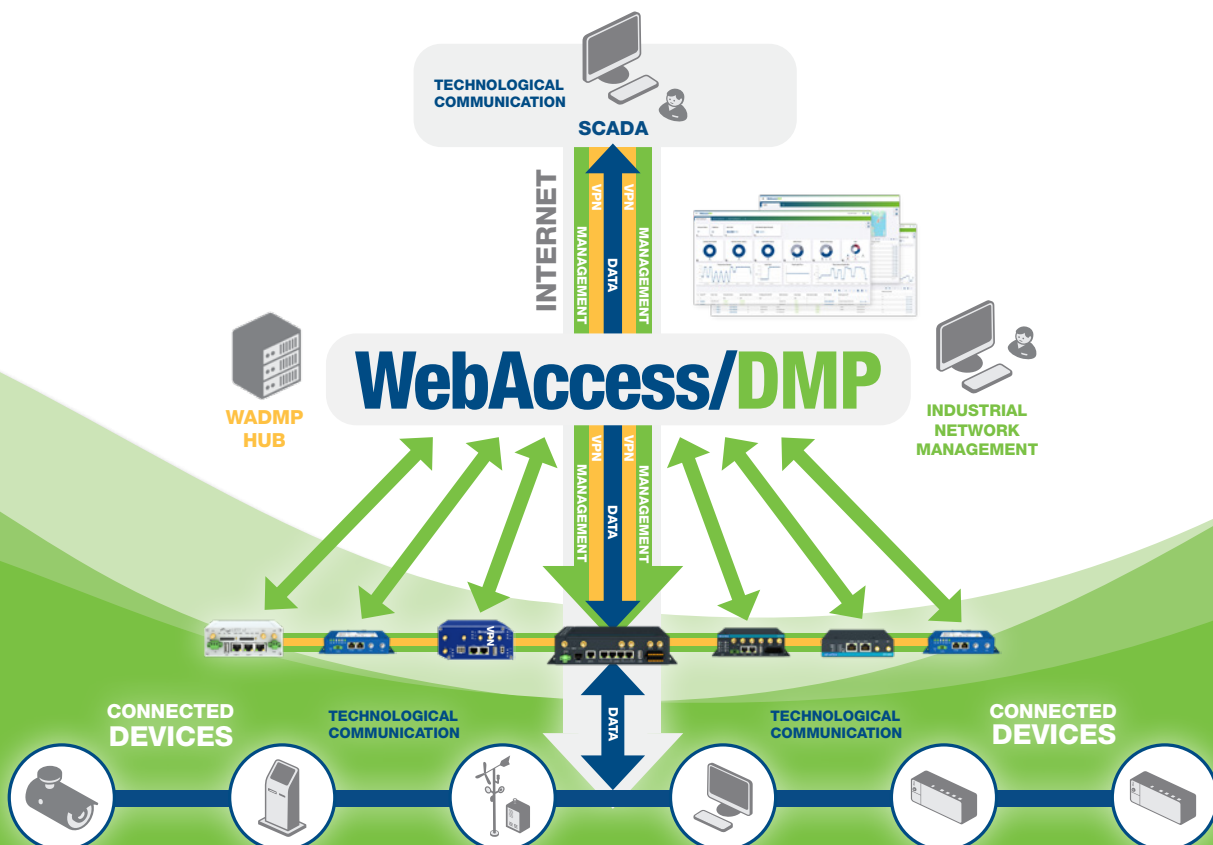
ICR-2800
ICR-2700 Libratum
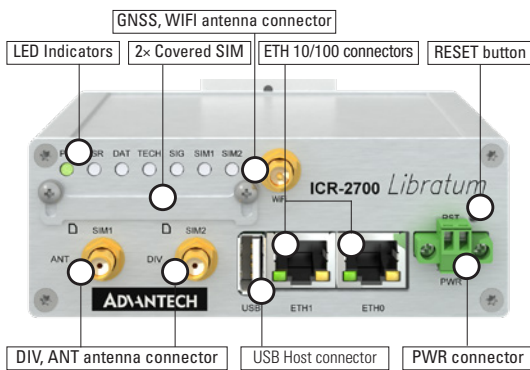
4G Entry Level Industrial Routers

- LTE Cat.4 with 3G/2G fallback
- 1.3 GB eMMC storage to host customer SW applications
- 2× SIM with cover, Embedded SIM ready, GNSS (ICR-2800 only)
- Optional 2× Serial RS232/RS485 (ICR-2800 only)
- 2× Ethernet 10/100, USB Host 2.0
- Optional WIFI 802.11n
- Optional Metal or Plastic case
- DIN Rail mounting
- Wide operational temperature range
- Backup real time clock, Sleep mode

Introducing the **ICR-2700 Libratum** and **ICR-2800** – advanced successors to Advantech's LR77v2 industrial cellular routers. Building on success of their predecessors they are 1:1 compatible in a housing shape simplifying transition of already deployed older routers.
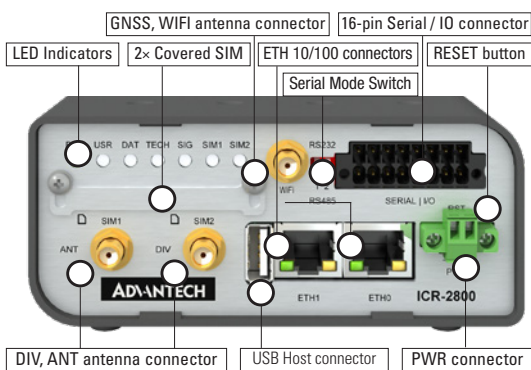
4G/LTE Cat.4 routers bring enhanced features and stronger CPU. Also 1.3 GB memory for customer applications and data that turns this platform capabilities into a more complete IoT industrial gateway operating at the network edge. For locale connection customer can use Ethernet 10/100 ports, USB Host 2.0 and WIFI, with **ICR-2800** also configurable serial interfaces RS232/RS485 and digital I/O´s.

Running on Linux based ICR-OS these routers offer a secure web interface for remote configuration and management. Real-time data encryption and VPN tunneling using IPsec, WireGuard, OpenVPN and other technologies. Installation is simple whether in individual or in mass deployments thanks to WebAccess/DMP.

ICR-2600
ICR-2500

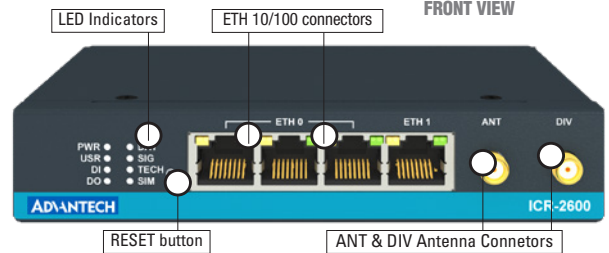**4G Entry Level Industrial Routers**

- LTE Cat.4 with 3G/2G fallback
- 2× SIM for redundancy
- 4× Ethernet 10/100 Mbps (3+1 RJ45)
- Optional 1× RS232, 1× RS485
- 1× DI, 1× DO
- Wide operational temperature range
- Wall and DIN mount options
- Linux based OS & SW customization
- Optional WIFI 802.11n

Introducing the **ICR-2600** and **ICR-2500** – entry level but very complete industrial cellular 4G/LTE routers with 4× Ethernet 10/100 ports for connection and 2 SIM card holders to provide backup of the cellular connection. They are designed for wireless cellular communication in 4G/LTE Cat. 4 networks. There is also possible to take advantage of digital I/O, WIFI ac,a,b,g,n and in case of **ICR-2600** one RS232 and one RS485 serial port.
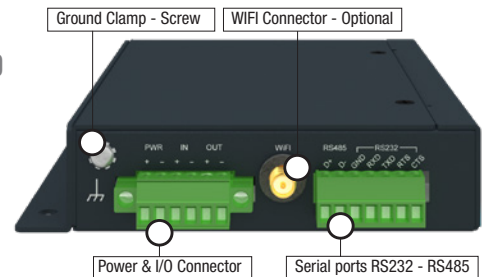
Routers prioritize secure communication and supporting VPN in common standards like IPsec, OpenVPN etc. Diagnostic functions include automatic monitoring, restart on connection loss and hardware watchdog. Operated on Linux based ICR-OS the routers enable custom programming in C/C++ or Python for skilled developers/operators.

There is also possible to benefit from the existing RouterApp library with ready-to-use software developed to enhance specific router functionalities including industrial protocol conversions. Routers are supported by WebAccess/DMP.

ICR-2700
FRONT VIEW, METAL VERSION

LED Indicators | 2× Covered SIM | GNSS, WIFI antenna connector | ETH 10/100 connectors | RESET button | DIV, ANT antenna connector | USB Host connector | PWR connector

ICR-2800
FRONT VIEW, PLASTIC VERSION

LED Indicators | 2× Covered SIM | GNSS, WIFI antenna connector | 16-pin Serial / IO connector | ETH 10/100 connectors | RESET button | Serial Mode Switch | DIV, ANT antenna connector | USB Host connector | PWR connector

ICR-2600/2500
FRONT VIEW

LED Indicators | ETH 10/100 connectors | RESET button | ANT & DIV Antenna Connetors

ICR-2600
LEFT VIEW

Ground Clamp - Screw | WIFI Connector - Optional | Power & I/O Connector | Serial ports RS232 - RS485

ICR-2500
LEFT VIEW

Ground Clamp - Screw | WIFI Connector - Optional | Power & I/O Connector

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Platform v2i

Platform v1

ICR-2400
ICR-2000

4G Entry Level Industrial Routers

- LTE Cat.4 with 3G/2G fallback
- LTE 450 options
- up to 2× SIM for redundancy
- up to 2× Ethernet 10/100 Mbps
- Optional 1× RS232, 1× RS485
- 1× DI, 1× DO
- Wide operational temperature range
- Wall and DIN mount options
- Linux based OS & SW customization
- Optional WIFI 802.11n
- Optional GNSS receiver

Introducing the **ICR-2400** and **ICR-2000** – entry level but very complete industrial cellular 4G/LTE routers with 2× Ethernet 10/100 ports and 2 SIM card holders (**ICR-2400**) and 1× Ethernet 10/100 and 1× SIM card holder (**ICR-2000**). Based on the model there are supported following 4G/LTE technologies: Cat.4, Cat-M/NB-IoT and 450 MHz. Routers support digital I/O, WIFI ac,a,b,g,n and in case of **ICR-2400** one RS232 and one RS485 serial port too.

Routers prioritize secure communication and supporting VPN in common standards like IPsec, OpenVPN etc. Diagnostic functions include automatic monitoring, restart on connection loss and hardware watchdog. Operated on Linux based ICR-OS the routers enable custom programming in C/C++ or Python for skilled developers/operators.

There is also possible to benefit from the existing RouterApp library with ready-to-use software developed to enhance specific router functionalities including industrial protocol conversions. Routers are supported by WebAccess/DMP.
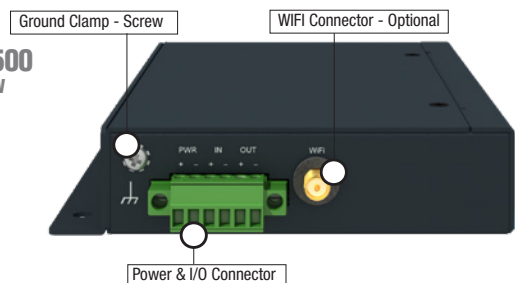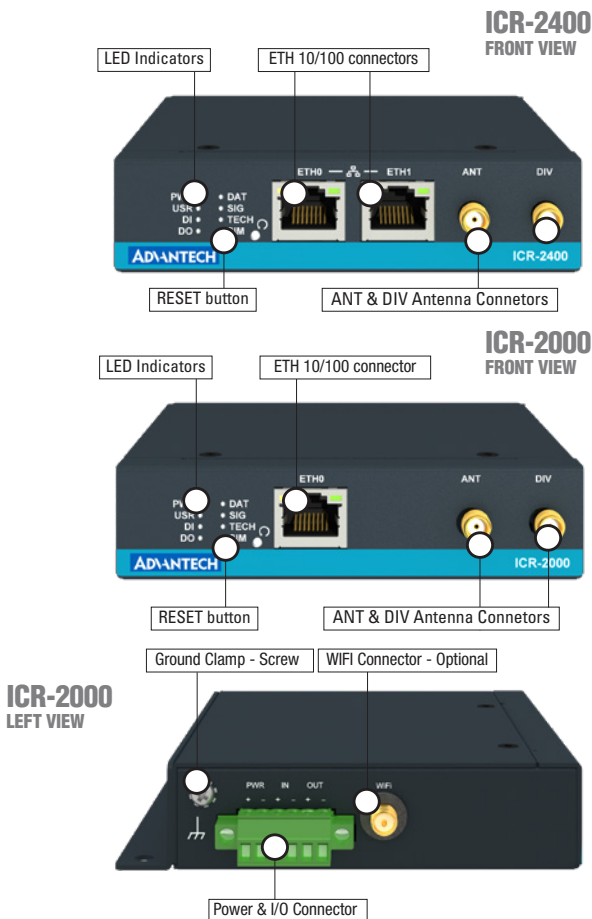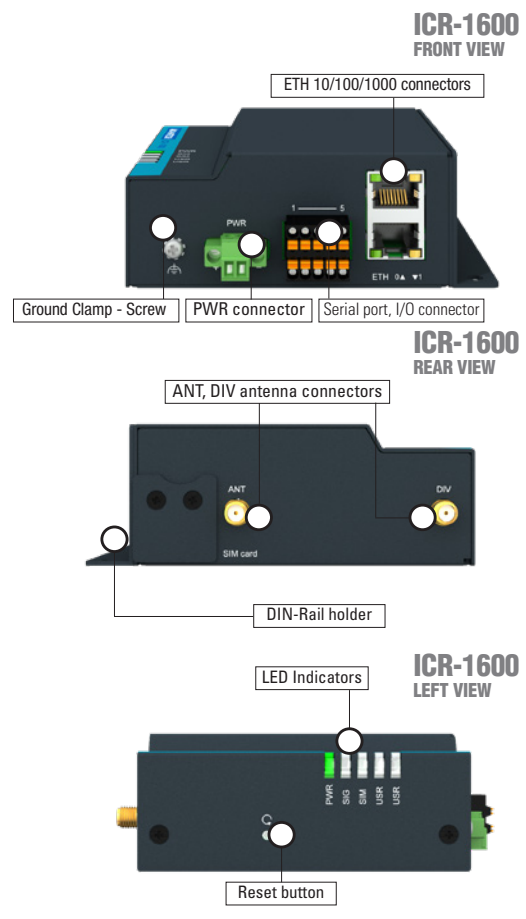
ICR-1600

4G Connectivity Gateway

- LTE Cat.4 with 3G/2G fallback
- 2× SIM for redundancy
- 2× Ethernet 10/100/1000 Mbps
- Wide operational temperature range
- Wall and DIN mount options
- Linux based OS & SW customization
- Optional 1 × RS232 + 1 × RS485 + 1 × DI +1 × DO
- Optional WiFi 5, IEEE802.11ac
- Optional GNSS receiver
- Compact and ruggedized design

The **ICR-1600** series industrial connectivity gateways are designed for wireless communication, enabling IP devices and serial buses (ICR-1642) to connect to a cellular network. It is ideal for M2M and IoT applications, including kiosks, industrial PCs, HMIs, traffic controllers, meters, and UPS systems.

LTE Cat.4 offers a peak downlink data rate of approximately 150 Mbps and an uplink peak data rate of 50 Mbps. The routers features two Gigabit Ethernet ports and optional digital I/O (1× DI, 1× DO) and serial (1 × RS232 + 1 × RS485) connectivity on the ICR-1642. It can also be optionally equipped with WiFi 5 or GNSS.

The connectivity gateway is based on ICR-OS operation system. Open Linux platform enable wide possibilities of programming customer SW applications in Python, C/C++. Router supports uploading of selected RouterApps (security, protocol conversion) that would extend standard firmware functionalities.

ICR-2400 FRONT VIEW

- LED Indicators
- ETH 10/100 connectors
- RESET button
- ANT & DIV Antenna Connetors

ICR-2000 FRONT VIEW

- LED Indicators
- ETH 10/100 connector
- RESET button
- ANT & DIV Antenna Connetors

ICR-2000 LEFT VIEW

- Ground Clamp - Screw
- WIFI Connector - Optional
- Power & I/O Connector

ICR-1600 FRONT VIEW

- ETH 10/100/1000 connectors
- Ground Clamp - Screw
- PWR connector
- Serial port, I/O connector

ICR-1600 REAR VIEW

- ANT, DIV antenna connectors
- DIN-Rail holder

ICR-1600 LEFT VIEW

- LED Indicators
- Reset button

TRANSPORTATION — SYDNEY FERRIES

Region: AUS
Product: ICR-3200
Application: Real-time monitoring of position Sydney Ferries

- Multicast support - PIM-SM
- GPS functionality - NMEA reporting
- Functionality IPtables
- VPN Functionality
- Monitoring SW **WebAccess/DMP**

ENERGY — POWER DISTRIBUTION MANAGEMENT

Region: EMEA
Product: ICR-3200, SmartFlex, SmartMotion
Application: SCADA connectivity for power distribution company

- Scalable LTE routers in terms of interfaces with the same SW environment
- Centralized management tool **WebAccess/DMP**
- IEC101/104 protocol conversion provided by LTE router
- Compatibility with current SNMP monitoring system Zabbix
- Two IPsec VPN connections to two geographically separated firewalls due to redundancy
- Support SCEP (Simple Certificate Enrollment Protocol) as a key part of robust cyber security

INDUSTRIAL EQUIPMENT MANUFACTURES — MONITORING OF ELEVATORS

Region: NAM
Product: ICR-3211B - 4G LTE Cat. M1, **WebAccess/DMP**
Application: Remote monitoring of lifts using LTE Cat. M1 cellulars routers

- Capability addresses the challenge of getting a reliable cell signal in basements and other in-building locations
- The built-in supercapacitor provides enough power for a "last gasp" message to be sent when the main power is lost
- The ICR-3211B supports the required software development tool Python3
   Cloud Monitoring needed for integration with its own web-based applications

E-MOBILITY — ELECTRIC CAR CHARGING STATIONS

Region: EMEA
Product: SmartFlex
Appli cation: Cellular connection for car charging stations

- SD card holder on router device
- Galvanically isolated Ethernet and serial ports RS232/RS485
- Open platform to host third party software
- Wide temperature range
- Over voltage protection

HEALTH CARE — MEDICAL DEVICE CONNECTIVITY

Region: NAM
Product: SmartFlex
Application: Surgical Machine, remote monitoring/control

- Multiple communication interface built-in
- Global cellular connectivity
- Use of global roaming SIM card
- Custom made **RouterApp**

TRANSACTION MANAGEMENT — 3G/4G CONNECTION FOR LOTTERY TERMINALS

Region: EMEA
Product: ICR-2500, LR77 v2 Libratum
Application: On-line transactional networks for national lotteries

- Dual SIM failover capability
- Support of Multicast
- DMVPN / GRE tunnels support
- Automatic mass update of configuration and firmware update
- Management and monitoring **WebAccess/DMP**

AUTOMATION — MONITORING OF BOILER SYSTEM

Region: ASIA
Product: SmartStart
Application: Monitoring of boiler system in hospitals, hotels and campuses enviroments

- Node-RED support
- Network edge data processing
- Dashboard Display for remote monitoring
- Alarm notification

SECURITY — SECURING OF AIRSPACE

Region: NAM, EMEA
Product: SmartFlex
Application: Secures the World's Airspace with multi-edge computing

- PoE PSE powering of connected camera
- SmartFlex's on-board WIFI provides a local connection for on-site technicians
- Serial interface RS232

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RouterApp   **ICR-OS**   **WebAccess/DMP**

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