# Integra Series

## LATEST CHIPSET TECHNOLOGY

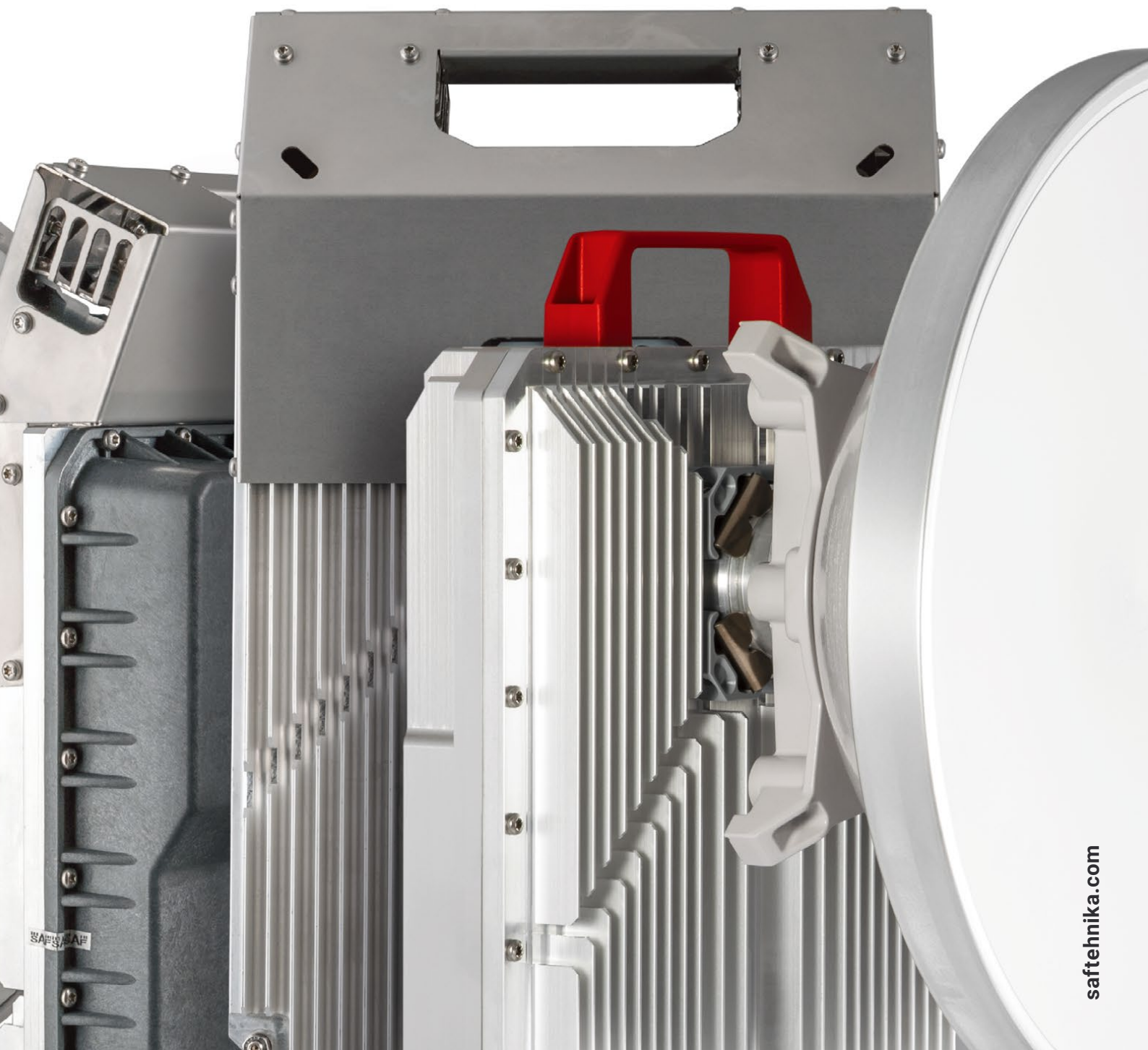**10 Gbps capacity**

**Up to 2000 MHz**

**Built-in 2+0 XPIC solution**

**Up to 4096 QAM**

# Integra-G    Integra-W

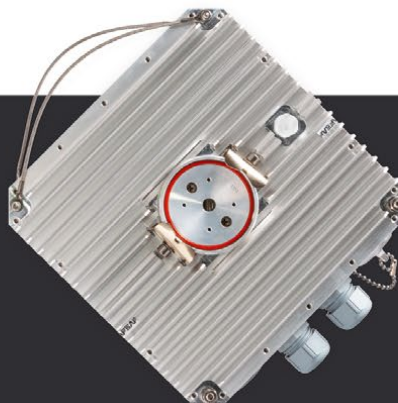| | | Integra-G | Integra-W |
|---|---|---|---|
| **Capacity** | ETSI | Up to 1 Gbps with HC | Up to 883 Mbps at 112 MHz 1024QAM |
| | FCC | Up to 1 Gbps with HC | Up to 643 Mbps at 80 MHz 1024QAM |
| **Frequency bands** | | — 6 GHz, 7 GHz, 8 GHz, 11 GHz, 13 GHz, 15 GHz, 17 GHz UL, 18 GHz, 23 GHz, 24 GHz UL, 25 GHz, 26 GHz, 28 GHz, 38 GHz, and more* | |
| **Max modulation** | | 2048QAM | 1024QAM |
| **Configurations** | | 1+0, 2+0 link bonding, 1+1* | 1+0 |
| **Channel bandwidth** | ETSI | from 1.75* MHz up to 56 MHz, up to 472 Mbps | from 56 MHz up to 112 MHz |
| | FCC | from 5MHz up to 60MHz, up to 491 Mbps | from 40 MHz up to 80 MHz |
| **Maximum Tx power** | | up to +31 dBm | up to +33 dBm |
| **Traffic ports** | RJ-45 | **1x** Electrical with built-in PoE splitter and surge arrestor | **2x** Electrical with built-in PoE splitter and surge arrestor |
| | SFP | **2x** Fiber Optics | **1x** Alternative to 1x RJx45 |
| **Service ports** | 3.5 mm | Audible alignment and RSSI | |
| | USB B | RS232 serial over USB B-Type | |
| | LED | Power On, Link Synchronization, RSL, Polarization accuracy* | |
| **Power** | DC port | — | |
| **Ethernet** | | Built-in Carrier Ethernet Gigabit Switch | Unmanaged Gigabit Ethernet |
| **Gigabit Switch functionality** | | 802.1Q VLANs with QoS/CoS incl. WRED*, shaping, DWRR and on MPLS-TP exp bit; Spanning Tree Protocol, Jumbo frames and more* | Transparent |
| **Management** | | In-band MNG over same ETH port; SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol | In-band*, Out-of-band; SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol |
| **Carrier Ethernet functionality** | | Provider Bridging, MEF9&14, High Efficiency Header Compression, OAM* | Transparent |
| **Synchronization** | | SyncE | — |
| **Encryption** | | AES256, FIPS197 certified | — |
| **Performance monitoring** | | Performance graphs, constellation diagram, alarms, detailed counters | |
| **Antenna type** | | External antenna | |
| **Form factor** | 6-13 GHz | 280 x 437 x 100 mm / 11.02" x 17.2" x 3.9", 6.5 kg / 14.3 lbs | |
| | 15-38 GHz | 235 x 250 x 72 mm / 9.26" x 9.85" x 2.84", 2.9 kg / 6.4 lbs | |
| | 17/24 GHz | — | 235 x 250 x 72 mm / 9.26" x 9.85" x 4.37", 4.9 kg / 10.8 lbs |
| **Temperature range** | | -33...+55 °C / -28...+130 °F | |

*Please contact SAF Tehnika representative for more information



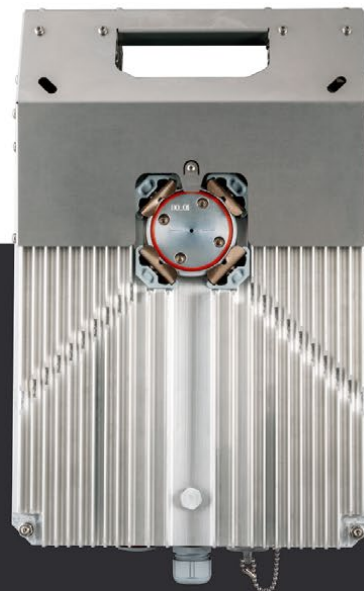Integra-G/-W 6-13 GHz body    Integra-W 17/24 GHz body    Integra-G/-W 15-38 GHz body

**NEW Integra-E2**  **Integra-X**

| | | Integra-E2 | Integra-X |
|---|---|---|---|
| **Capacity** | ETSI | Up to 10 Gbps at 2000 MHz | Up to 2.2 Gbps at 2x 112 MHz 4096QAM |
| | FCC | Up to 10 Gbps at 2000 MHz | Up to 1.5 Gbps at 2x 80 MHz 4096QAM |
| **Frequency bands** | | 71 - 76 GHz paired with 81 - 86 GHz | 6, 7, 11, 13 and 18 GHz. All licensed bands up to 38 GHz* |
| **Max modulation** | | 1024QAM | 4096QAM |
| **Configurations** | | 1+0 | 1+0, 2+0 XPIC, 2+0 ACAP |
| **Channel bandwidth** | ETSI | 62.5, 125, 250, 500, 1000, 2000 MHz | 7 to 112 MHz |
| | FCC | 62.5, 125, 250, 500, 1000, 2000 MHz | 5 to 80 MHz |
| **Maximum Tx power** | | up to +19 dBm | up to +31 dBm |
| **Traffic ports** | 1x RJ-45 | Gigabit Ethernet (auto 10/100/1000 Mbps) electrical port, PoE capable with built-in surge arrestor | |
| | 2x SFP | SFP+ for Fiber Optics (1, 2.5 and 10 Gbps speed supported) | |
| **Service ports** | 3.5 mm | Audible alignment and RSSI | |
| | USB B | RS232 serial over USB B-Type | |
| | LED | Power On, Link Synchronization, RSL | |
| **Power** | DC port | Screw type terminal block, pluggable, 2 pin, centerline 5.08 mm / 0.2" | |
| **Ethernet** | | Built-in Carrier Ethernet 10 Gigabit Switch, switching capacity up to 50 Gbps | |
| **Ethernet Switch functionality** | | 802.1Q VLANs with QoS/CoS incl. WRED*, shaping* DWRR and on MPLS-TP exp. bit; Spanning Tree Protocol* Jumbo frames and more* | |
| **Management** | | SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS, Network Time Protocol. In-band Management over same ETH port. Out-band Management is configurable using VLANs. | |
| **Carrier Ethernet functionality** | | Provider Bridging, MEF9&14, OAM* | Provider Bridging, MEF9&14, OAM* High Efficiency Header Compression |
| **Synchronization** | | SyncE, PTP 1588v2 | SyncE |
| **Encryption** | | AES256* | |
| **Performance monitoring** | | Performance graphs, constellation diagram, alarms, detailed counters | |
| **Antenna type** | | External antenna | |
| **Form factor** | | 280 x 400 x 70 mm / 11.02" x 15.8" x 2.8" 7.1 kg / 15.7 lbs | 280 x 437 x 100 mm / 11.02" x 17.2" x 3.9" 8.5 kg / 18.7 lbs |
| **Temperature range** | | -33...+55 °C / -28...+130 °F | |

*Please contact SAF Tehnika representative for more information

Integra-E2 body          Integra-X body

SAF Tehnika partners with leading open-source network monitoring software provider Zabbix to offer the best network monitoring experience for our customers. While Zabbix is a 100% free open source license, SAF Tehnika customers will be able to purchase the level of support they require for Zabbix customization and integration of SAF equipment.

## SAF Tehnika provides the following services:

- Deployment, configuration, and integration of SAF Tehnika equipment into Zabbix.

- Zabbix Technical support on a contract basis. Technical support can be packaged with Zabbix deployment service.

## Benefits:

- Reduce the time you spend searching for a solution in Zabbix by contracting with a SAF Tehnika – Zabbix Certified Specialist

- Get expert installation instruction on the optimal way to collect data from SAF Tehnika equipment in Zabbix

- Get professional advice on Zabbix architecture and the appropriate hardware specifications to speed up the integration of SAF Tehnika equipment in Zabbix

- Purchase an annual maintenance contract and have a Zabbix Certified Specialist from SAF Tehnika for all your support needs

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