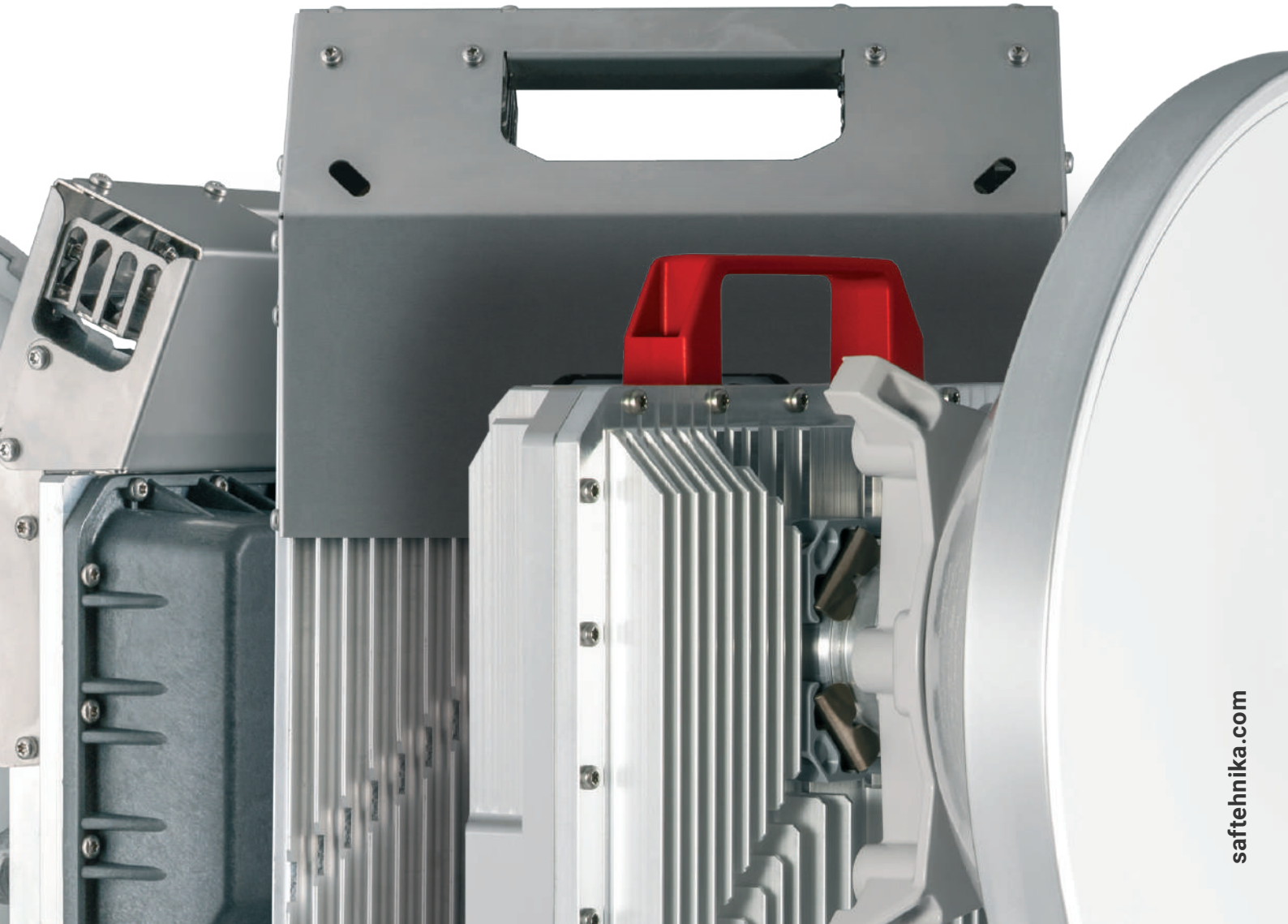
# Integra Series

## LATEST CHIPSET TECHNOLOGY

- 10 Gbps capacity
- Up to 2000 MHz
- Built-in 2+0 XPIC solution
- Up to 4096 QAM

**DOWNLOAD E-VERSION:**



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| | | 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** | | 5.8 GHz UL, 6GHz, 7GHz, 8GHz, 11GHz, 13GHz, 15GHz, 17GHz UL, 18GHz, 23GHz, 24GHz UL, 25GHz, 26GHz, 28GHz, 38GHz, 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 |
| **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* | 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**

| | | Integra-E2 | Integra-E3 |
|---|---|---|---|
| **Capacity** | **ETSI** | Up to 10 Gbps at 2000 MHz | |
| | **FCC** | Up to 10 Gbps at 2000 MHz | |
| **Frequency bands** | | 71 – 76 GHz paired with 81 – 86 GHz | |
| **Max modulation** | | 1024QAM | |
| **Configurations** | | 1+0 | |
| **Channel bandwidth** | **ETSI** | 62.5, 125, 250, 500, 1000, 2000 MHz | |
| | **FCC** | 62.5, 125, 250, 500, 1000, 2000 MHz | |
| **Maximum Tx power** | | up to +19 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* | |
| **Synchronization** | | SyncE, PTP 1588v2 | SyncE, PTP 1588v2 (only in non-AES mode) |
| **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 | |
| **Temperature range** | | -33...+55 °C / -28...+130 °F | |

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**Integra-E2 body**

| | | Integra-X | Integra-X2 |
|---|---|---|---|
| **Capacity** | **ETSI** | Up to 2.2 Gbps at 2x 112 MHz 4096QAM | |
| | **FCC** | Up to 1.5 Gbps at 2x 80 MHz 4096QAM | |
| **Frequency bands** | | 4U*, 5*, 6, 7, 8, 11, 13, 15, 18, 23, 26, 28, 30, and 38* GHz | |
| **Max modulation** | | 4096QAM | |
| **Configurations** | **ETSI** | 1+0, 2+0 XPIC, 2+0 ACAP | |
| **Channel bandwidth** | **FCC** | 7 to 112 MHz | |
| | | 5 to 80 MHz | |
| **Maximum Tx power** | | up to +32 dBm | |
| **Traffic ports** | **1x RJ-45** | Gigabit Ethernet (auto 10/100/1000 Mbps) electrical port,<br>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*<br>DWRR and on MPLS-TP exp. bit; Spanning Tree Protocol* Jumbo frames and more* | |
| **Management** | | SNMP v1/2c/3, SSH, Telnet, HTTPS, Serial, RADIUS,<br>Network Time Protocol. In-band Management over same ETH port.<br>Out-band Management is configurable using VLANs. | |
| **Carrier Ethernet functionality** | | Provider Bridging, MEF9&14*, OAM*<br>High Efficiency Header Compression | |
| **Synchronization** | | SyncE | |
| **Encryption** | | — | AES256 |
| **Performance monitoring** | | Performance graphs, constellation diagram, alarms, detailed counters | |
| **Antenna type** | | External antenna | |
| **Form factor** | | 280 x 437 x 100 mm / 11.02" x 17.2" x 3.9"<br>8.5 kg / 18.7 lbs | |
| **Temperature range** | | -33...+55 °C / -28...+130 °F | |

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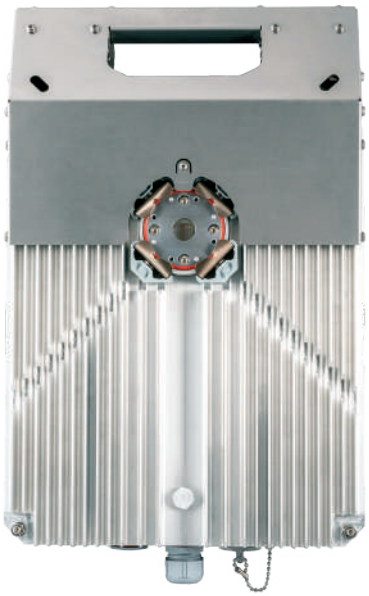

**Integra-X body**

For more detailed information visit **saftehnika.com**
or contact your SAF Tehnika representative **info@saftehnika.com**
Product features may vary between different models and configurations.
They are subject to change without prior notice. **SAF Tehnika © 2024**