

QuARX

Airborne & SDR Airborne Modem

QuARX delivers reliable, real-time broadband satellite communication for land, naval, and air platforms operating in mission-critical environments. Already deployed across air, land, and maritime domains, QuARX supports joint operations by enabling seamless connectivity between forces. It is well suited for applications such as intelligence, surveillance, reconnaissance (ISR) and secure data transmission, ensuring continuous and dependable communication under demanding operational conditions.

Key Features

- Operates across land, naval, and air platforms
- Supports Point-to-Point (P2P) and Point-to-Multipoint (P2MP) satellite links
- DVB-S2 compliant for efficient and reliable SATCOM
- High spectral efficiency for optimal bandwidth usage
- Secure and high-speed data transmission
- Rugged design suitable for harsh operational environments
- Compatible with GEO, MEO, and LEO satellite systems

Operational Advantages

- Enables continuous connectivity across joint operations
- Maintains stable communication in dynamic and mobile scenarios
- Supports secure, real-time command and control (C2)
- Enhances mission flexibility with global satellite coverage
- Proven performance in demanding land, maritime, and airborne missions

**HIGH DATA
THROUGHPUT**



Ruggedized Modem

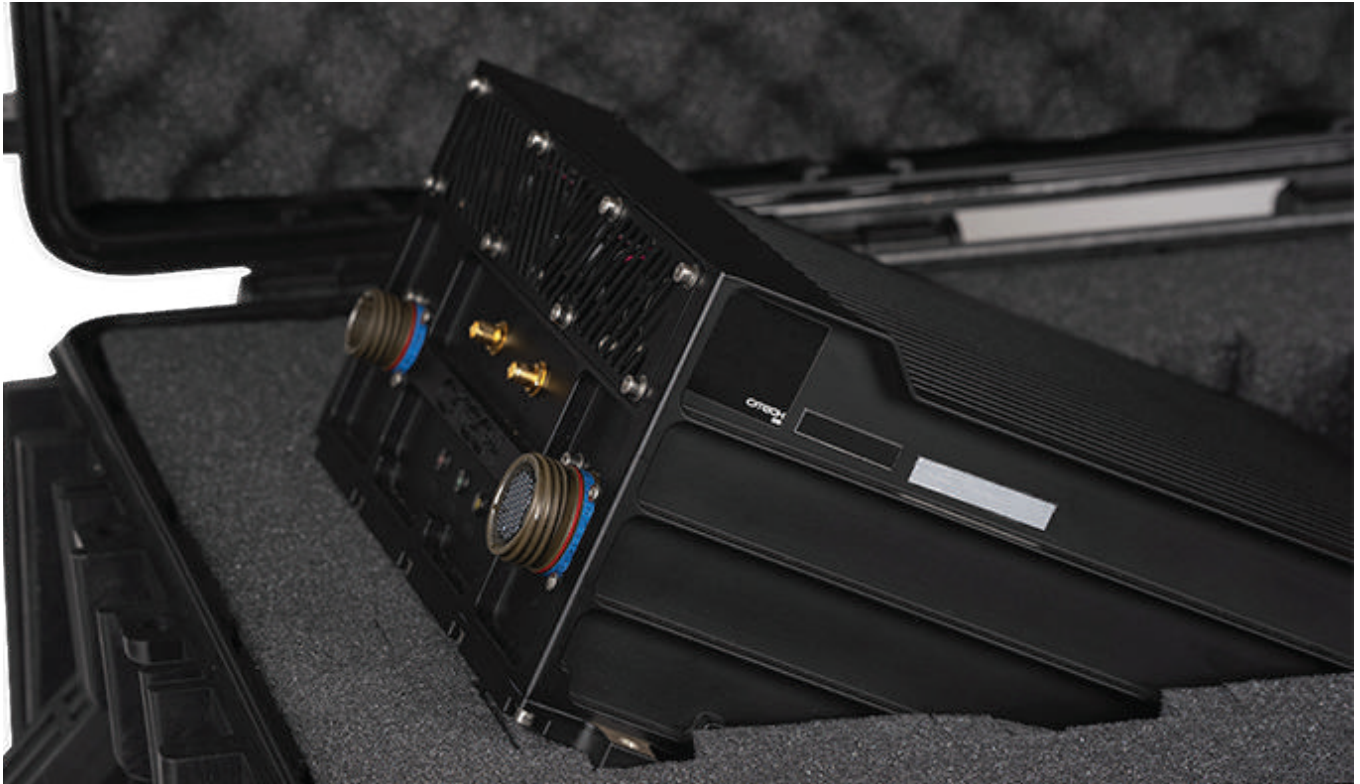


Small Form Factor SDR Modem

QUARX-A MODEM FEATURES

QUARX-A MODEM SPECIFICATIONS

L-Band TX Out Frequency	950–2150 MHz
L-Band RX In Frequency	950–2150 MHz
Waveform	DVB-S2 (ETSI EN 302 307)
Symbol Rate	65 Mbaud/s
Data Encryption	AES-256
Interfaces	24 V DC Power Input L-Band RF TX x1, L-Band RF RX x1, 10/100/1000 Mbps Ethernet x2, Controlling/Monitoring/Maintenance 10/100/1000 Mbps Ethernet x1, Telemetry/Telecommand Data 10/100/1000 Mbps Ethernet x1, Antenna Control Unit RS-422 x2, CLI Control RS-232 x1, Linux Command Line
Connectors	SMA 50 Ohm Female Connector x2, L-Band RF TX and RX (132284) 4-pin 38999- Military Type Circular Connector x1, Power Input (D38999/20WC) 55-pin 38999- Military Type Circular Connector x1, Data/Control (TVP00WC)
Power Consumption @ Operating Voltage	Nominal: 72 W @ 28 V DC, Instant peak 202 W @ 28 V DC (1.5ms)
Operating Voltage	Nominal 28 V DC 16–33 V DC, MIL-STD-704F/DO-160 Normal
Instant Power Failure Hold-Up Time	< 25 ms
Box Features	Fan Cooled Finned Aluminum Body
Box Dimensions	312,1 x 261 x 133,4 mm (Length x Width x Height)
Weight	5406 ±5% gr
Operating Temperature Range	-40°C/+55°C
Storage Temperature Range	-55°C/+70°C



QuARX-A Modem



QuARX-G Modem

QUARX-G MODEM FEATURES

QUARX-G MODEM SPECIFICATIONS

L-Band TX Out Frequency	950–2150 MHz
L-Band RX In Frequency	950–2150 MHz
Waveform	DVB-S2 (ETSI EN 302 307)
Symbol Rate	65 Mbaud/s
Data Encryption	AES-256
Interfaces	24 V DC Power Input L-Band RF TX x1, L-Band RF RX x1, 10/100/1000Mbps Ethernet x2, Controlling/Monitoring/Maintenance 10/100/1000Mbps Ethernet x1, Telemetry/Telecommand Data 10/100/1000Mbps Ethernet x1, Antenna Control Unit RS-232 x2, CLI Control RS-232 x1, Linux Command Line
Connectors	SMA 50 Ohm Female Connector x2, L-Band RF TX and RX (132284) 4-pin 38999- Military Type Circular Connector x1, Power Input (D38999/20WC4PN) 22-pin 38999- Military Type Circular Connector x2, Data/Control (TVP00WCI-17-35SF459) (TVP00WCI-13-35SA-F459)
Power Consumption @ Operating Voltage	Nominal: 72 W @ 28 V DC, Instant peak 202 W @ 28 V DC (1.5ms)
Operating Voltage	220 V AC / 50 Hz
Instant Power Failure Hold-Up Time	< 25 ms
Box Features	Fan Cooled Finned Aluminum Body
Box Dimensions	502,9 x 483 x 44,4 mm (Length x Width x Height)
Weight	8460±5% gr
Operating Temperature Range	-40°C/+55°C
Storage Temperature Range	-55°C/+70°C



Small Form Factor SDR Modem

SMALL FORM FACTOR SDR MODEM

SMALL FORM FACTOR SDR MODEM SPECIFICATIONS

Modem Type	Software Defined Radio (SDR) SATCOM Modem
Connectivity	SCPC (Single Channel Per Carrier)
Supported Applications	Fixed and Mobile SATCOM, SOTM
Frequency Band Options	C-band, X-band, Ku-band, Ka-band
Satellite Orbits	GEO, MEO, LEO
Waveform	DVB-S2
Data Throughput	High Data Throughput
Network Support	Layer-2 and Layer-3
Antenna Interface	Open AMIP (SOTM compatible)
Operation Modes	Point-to-Point (P2P)
Security	Secure SATCOM Communication
Standards Compliance	DVB-S2
Environmental Standards	MIL-STD-810G
EMC Standards	MIL-STD-461E
Power Standards	MIL-STD-704
Deployment Domains	Land, Naval, and Air Platforms
Use Cases	ISR, IP Trunking, Cellular Backhaul, Disaster Recovery, Enterprise & Defense