

Phoenix Series



Split mount / full indoor radio system



1.4 Gbps
Capacity



+33 dBm
Tx Power



112 MHz
Bandwidth



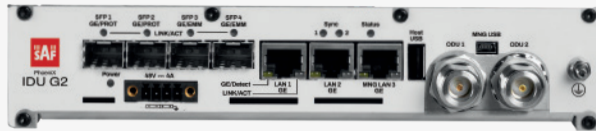
2048QAM
Modulation



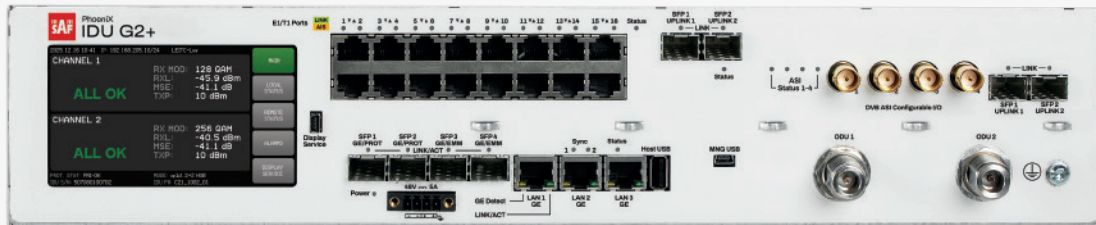
Modems

PhoeniX series modems serve as the link's control point, handling modulation, demodulation, and high-capacity Ethernet traffic in a single chassis. Achieve up to 1.4 Gbps in 2+0 configuration through wide channel support and high-order modulation. Native IP, ASI, and TDM interfaces, together with modular expansion, streamline network upgrades while ensuring dependable performance in mission-critical backhaul.

PhoeniX IDU G2



PhoeniX IDU G2+



General		PhoeniX IDU G2	PhoeniX IDU G2+
System design			Full Indoor / Split Mount
Frequency bands			2, 4, 6, 7, 8, 11, 13, 15, 18, 23, 26 and 38 GHz
Capacity			up to 1.4 Gbps
Modulation			2048QAM
Configurations			1+0, 1+0 Dual, 1+0 Star (Repeater), 1+1 HSB/SD/FD, 2+0 (Layer 1 aggregation), 2+0 XPIC, 2+2 HSB
Channel bandwidth	ETSI		1.75, 3.5, 7, 12, 14, 20, 28, 40, 56, 112* MHz
	FCC		2.5, 5, 10, 20, 25, 30, 40, 50, 60, 80, 100* MHz
Maximum Tx power			+37 dBm
Encryption			AES-256
Display		—	LCD touchscreen

*ODU dependent

Advanced model features

Ports		Phoenix IDU G2	Phoenix IDU G2+
Ethernet traffic	RJ-45	3 x RJ-45 (10/100/1000 Base-T)	
	SFP	4 x SFP (1000 Base-SX/LX)	
ASI	BNC	—	up to 8 x BNC unbalanced, 75 ohm native ASI channels for ASI I/O
E1/T1	RJ-45	—	up to 16 x RJ-45 G.703-E1 balanced 120 ohm for E1 mode; G.703-E1 unbalanced 75 ohm for E1 mode; T1.102-T1/100 ohm for T1 mode
IDU <-> ASI/E1/T1	SFP	—	1 x SFP (1000 Base-SX) proprietary GigE protocol for embedded ASI and/or E1/T1 module connection
Additional module connection	SFP	—	1 x SFP (1000 Base-SX) proprietary GigE protocol additional ASI and/or E1/T1 module connection
Alarm port	DB-9/B08-BASK-1	2 x Alarm In; 2 x Alarm Out	
STM-1	SFP	up to 2 x STM-1/OC-3 optical interfaces; ITU-T Rec. G.811	
Outband management access	RJ-45	1 x RJ-45 (10/100/1000 Base-T)	
Serial port for configuration	USB Mini-B	1 x USB Mini-B (alternative IP)	
Flash memory for log file export	USB-A	1 x USB-A	
Display service	USB Mini-B	—	1 x USB Mini-B
ODU connection	N-Type Female	2 x N-Type Female	
Power	Single block 4 pole	1 x DC or 2 x DC	

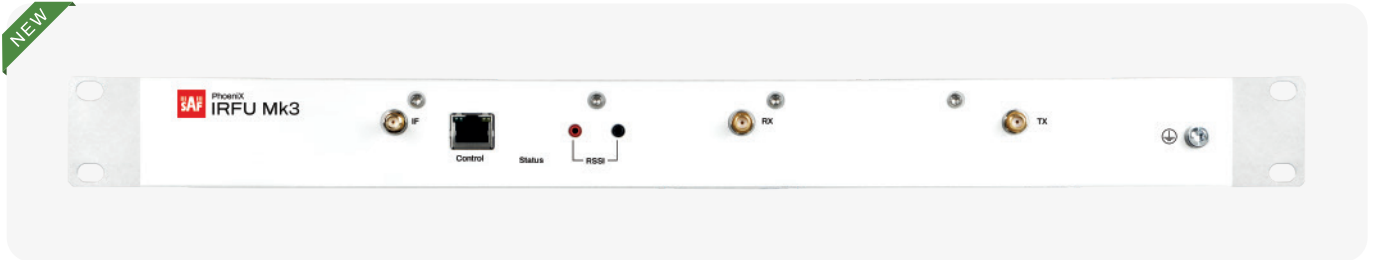
Ethernet		Phoenix IDU G2	Phoenix IDU G2+
Ethernet switch		Managed Gigabit Ethernet Layer 2	
Management		In-band (via port grouping), Out-of-band; Web based, HTTP/HTTPS; via WEB GUI (HTTP*/HTTPS), CLI (Telnet/SSH), NMS (SNMP v1/v2c/v3), Serial interface (USB IP port); SNMP traps, MIB, SNMP v1/v2c/3; Perf. monitoring	
Synchronization		PTP 1588v2	
QoS		IPv4 64 level DiffServ (DSCP) or 8 level 802.1p mapped in 4 prioritization queues with VLAN support, IPv6 Traffic Class	
SyncE		G.8261; G.8262	

Mechanical & Electrical		Phoenix IDU G2	Phoenix IDU G2+
Temperature range		-5 °C to +45 °C / 23 °F to 113 °F	
Cooling		Built-in fans: on/off/auto mode	Fanless (passive)
Form factor	Size	½ width 1U (44 x 220 x 240 mm / 1.73 x 8.66x 9.45 in)	19" 2U (90 x 430 x 265 mm / 3.54 x 16.93 x 10.43 in)
	Weight	2.2 kg / 4.9 lb	<3.5 kg / 6.61 lb
Power consumption	IDU only	<30W	<27W
	4 x ASI	—	<10W
	16 x E1/T1	—	<10W
Input voltage	DC	-40.5V to -57V DC, conforms to ETSI EN 300 132-2	

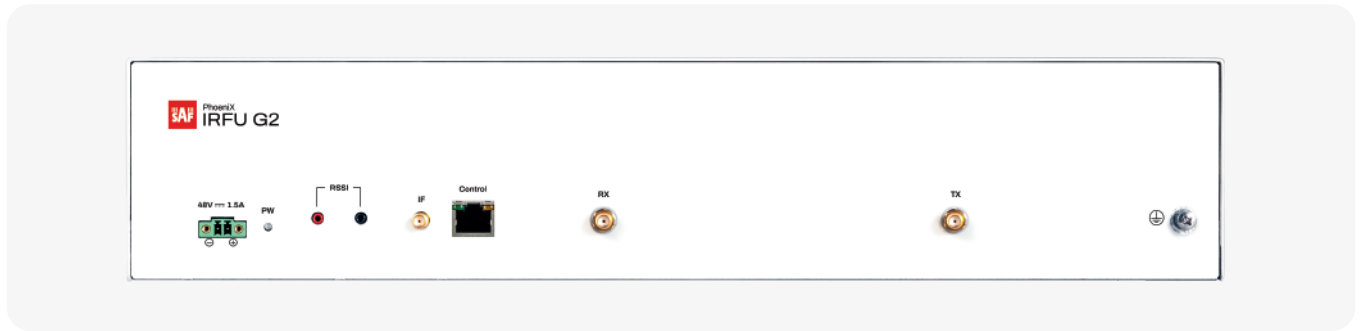
Indoor Radios

PhoeniX IRFUs are rack-mounted RF transceivers for full indoor deployments, keeping all radio components in a controlled environment for easier maintenance. The front-facing interface enables full port control, simplifying access, installation and operation. High transmitter power and industrial-grade reliability ensure stable, mission-critical links for broadcast, utility, and public safety networks.

PhoeniX IRFU Mk3



PhoeniX IRFU G2



Ports		PhoeniX IRFU Mk3	PhoeniX IRFU G2
Antenna		SMA Tx and Rx ports to external filters/IBU	N-type or flange SMA Tx and Rx ports
IF to IDU		SMA	
RSSI		2-port for multi-meter	
Power		Over IF port	
Control	RJ-45	RJ-45 control port for interconnection with active switch IBU (indoor branching unit)**	

Mechanical & Electrical		PhoeniX IRFU Mk3	PhoeniX IRFU G2
Temperature range		-5 °C to +55 °C / 23 °F to 131 °F	
Cooling		Fanless (passive)	Built-in fans
Form factor	Size	19" 1U (44 x 430 x 260 mm / 1.77 x 16.93 x 10.2 in)	19" 2U (90 x 430 x 260 mm / 3.54 x 16.93 x 10.2 in)
	Weight	4 kg / 8.82 lb	5.8 kg / 12.7 lb
Power consumption	HP model	<35W	21-39W
	VHP model	<40W	39-75W
Input voltage	DC	-40.5V to -57V DC, conforms to ETSI EN 300 132-2	

**Optional for PhoeniX IRFU G2

Outdoor Radios

PhoeniX ODUs are outdoor RF transceivers for split mount deployments, keeping the radio unit close to the antenna for optimal performance. Supporting up to 112 MHz channels and 4096QAM***, they deliver exceptional capacity, throughput and system gain. Rugged, weatherproof and energy-efficient, the ODUs ensures reliable operation in demanding environments. Seamlessly integrate with PhoeniX indoor units or third-party systems.

PhoeniX ODU Mk3



PhoeniX ODU G2



Ports	PhoeniX ODU Mk3	PhoeniX ODU G2
Antenna		N-type or flange
IF to IDU		N-type
RSSI	3.5 mm phone jack	BNC
Power		Over IF port

Mechanical & Electrical	PhoeniX ODU Mk3	PhoeniX ODU G2
Temperature range	-33 °C to +55 °C / -27 °F to 131 °F	
Cooling	Fanless (passive)	Built-in fans
Form factor	Size	280 x 280 x 98 mm / 11 x 11 x 3.86 in
	Weight	3.5 kg / 7.7 lb
Power consumption	HP model	<35W
	VHP model	<40W
Input voltage	DC -40.5V to -57V DC conforms to ETSI EN 300 132-2	

***Modem dependent

Modem Extensions

Phoenix modem extensions expand system connectivity with ASI or E1/T1 interfaces, allowing cascading up to four modules per modem. This provides up to 16 ASI ports or up to 64 E1/T1 ports in total, easily supporting high-demand networks. Compact and low-power, the extensions integrate seamlessly with existing modems for flexible, reliable growth in mission-critical deployments.

Phoenix ASI



Phoenix E1/T1

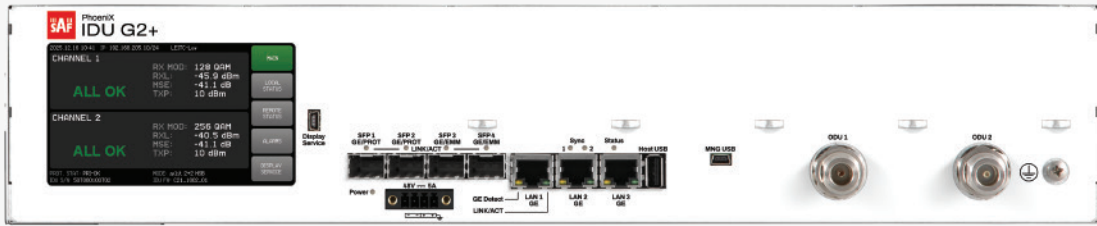


Ports		Phoenix ASI	Phoenix E1/T1
ASI	BNC	4 x BNC native ASI channels, unbalanced, 75 ohm	—
E1/T1	RJ-45	—	16 x RJ-45 G.703-E1 balanced 120 ohm for E1 mode; G.703-E1 unbalanced 75 ohm for E1 mode; T1.102-T1/100 ohm for T1 mode
IDU connection	SFP	1 x SFP (1000 Base-SX) proprietary GigE protocol	
Connection to next external module	SFP	1 x SFP (1000 Base-SX) proprietary GigE protocol	
Power	DC	1 x DC	

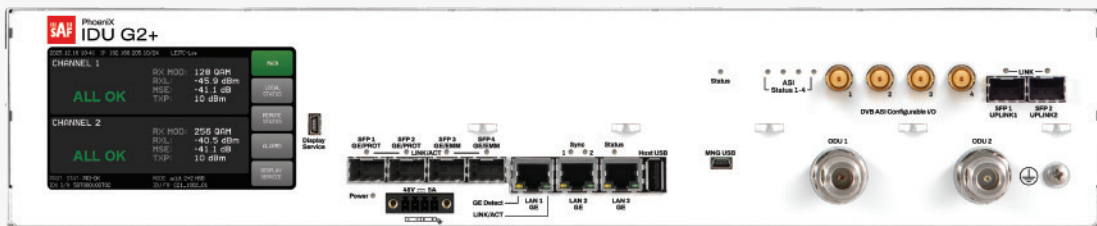
Mechanical & Electrical		Phoenix ASI	Phoenix E1/T1
Temperature range		-5 °C to +45 °C / 23 °F to 113 °F	
Cooling		—	
Form factor	Size	½ width 1U (45 x 210 x 240 mm / 1.77 x 8.27 x 9.45 in)	
	Weight	1.3 kg / 2.87 lb	
Power consumption	HP model	<9W	
Input voltage	DC	-20V to -57V DC	

PhoeniX IDU G2+ Configurations

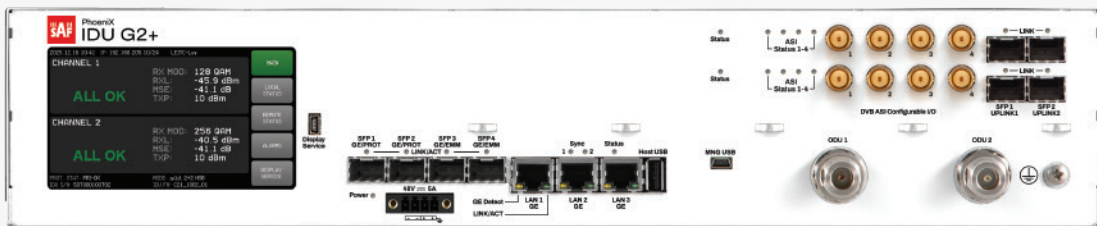
PhoeniX IDU G2+



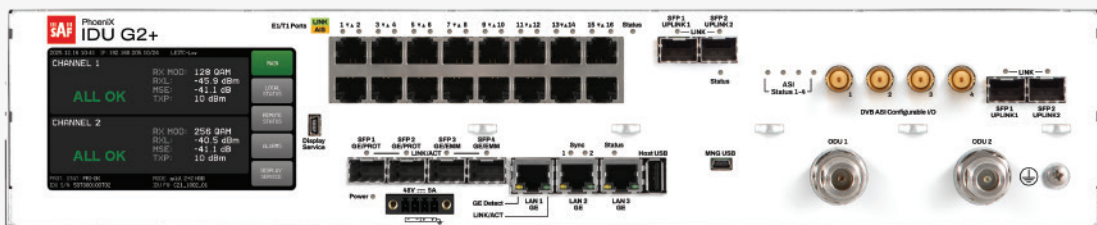
PhoeniX IDU G2+ with embedded 4 x ASI



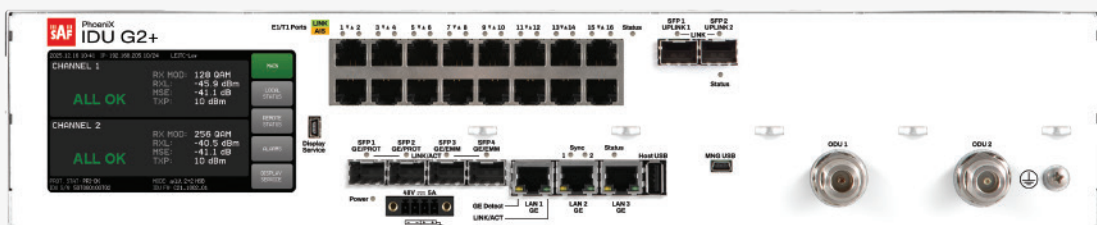
PhoeniX IDU G2+ with embedded 8 x ASI



PhoeniX IDU G2+ with embedded 4 x ASI and 16 x E1/T1

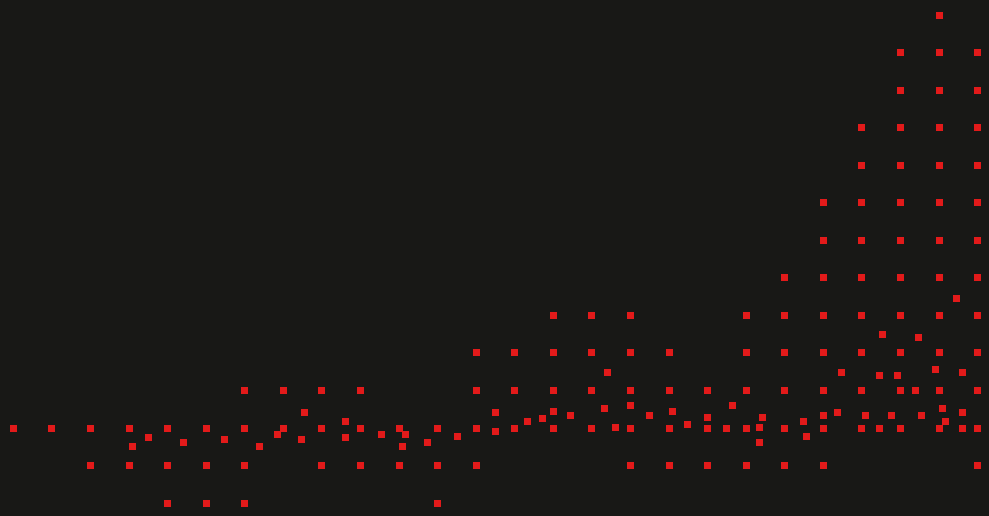


PhoeniX IDU G2+ with embedded 16 x E1/T1





Connect
and Protect
What Matters



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