

Genus Outdoor Unit

Flexible & resilient RF signal management

The Genus outdoor unit (ODU) has a modular design which can house any combination of compatible modules within the unit. Supplying operators with a flexible and scalable solution, that reduces spare parts and space requirements.

The ODU chassis houses up to 19 RF modules including Amplifiers, BUC/LNB Power Supply's, Frequency Converters, Matrices, RF over Fibre, Redundancy Switches and Test Loop Translators, which can be mixed. The Genus chassis provides a cost-efficient solution with field-replaceable components.

The RF modules are field-serviceable and can be inserted whilst the shelf is in service, giving excellent levels of flexibility and resilience. With additional reliability from dual redundant hot-swap power supplies & field serviceable RF modules, CPU and optional user replaceable internal and external 10MHz reference source & HMI.

Available with the additional option of air-conditioning units for higher operating temperature environments. (Model GNS-301-ODU-A) and with heating for lower temperature operation (Model GNS-301-ODU-H). See Air Conditioning/Heating Model Numbers

Resillience from dual redundant hot-swap power Compact & flexible **Remote control & monitoring** supplies & field serviceable RF modules ODU chassis holding up to 19 RF via RI45 Ethernet via RI45, & CPU modules, which can be mixed. 10BaseT/100BaseTx, ETL TCP/IP protocol, -Optional Air Conditioning units for SNMPv3 & Web Browser Interface higher operating temperature -Optional hot swap HMI **10MHz reference source** Secure Communications Flexible Signal Distribution Optional user replaceable internal with SNMPv3, HTTPS Frequency converters, Redundancy and external 10MHz reference & Switches (N+1), RF Over Fibre, Matrices distribution source. (refer to and Power Supply Modules are available. separate datasheet)



GNS-301-ODU/GNS-301-ODU-A/ GNS-301-ODU-H/GNS-301-ODU-AH

		General Sp	ecifications					
			Up to 19 RF modules					
Capacity		Note: Actual number dependent upon module type fitted. (Can accommodate FALCON 4-slot modules in 2+1 configuration, please enquire if required).						
Dimensions		500mm high x 500mm wide x 300mm (TBC for AC option) deep Please confirm size requirements with ETL prior to order						
Weight		<18 kg (TBC)						
Colour		RAL9003 White (Semi-Matte)						
AC Power		100-240 VAC (50/60Hz) 'A' aircon option is 220-240 VAC only 'A1' aircon option is 100-120 VAC only						
AC Consumption		TBC						
PSU		Dual redundant & alarmed, Diode OR, Hot-swap						
RF Modules		Single, field replaceable & hot-swap						
Heat Load		<145W, 495 BTU/Hour (for GNS-301-ODU-A)						
Tech Spec Version		1.0						
		Relia	bility					
MTTR		15 minutes to replace. Assumes spares at hand. Applies to LRUs only and assumed in house stock.						
MTDE	Chassis	> 250 000						
MTBF	CPU	> 250 000						
Hot-swap serviceab	/ Field le components	Dual redundant power supplies, RF modules, CPU, internal 10MHz reference source & HMI (if fitted)						
		Control & I	Monitoring					
Local Control Remote Control & Monitoring		HMI, capacitive touchscreen (option)						
		Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP protocol SNMPv3 & HTTPS Built-in Web Server						
		Environ	mental					
		-20°C to 45°C						
Operating temperature		-40°C to +65°C with optional Air-Conditioning units -40°C requires optional heat pad Please see Air Conditioning/Heating Model Numbers for options						
Location		Outdoor or Indoor use IP65 AC unit reduces IP rating to IP54						
Storage temperature		-40°C to +80°C Not Powered						
Humidity		20% - 90% non-condensing Relative Humidity						
Altitude	Operational	10,000 ft AMSL (Above Mean Sea Level)						
	Storage	30,000 ft AMSL (Above Mean Sea Level)						
		Air Conditioning/Heating Model Numbers						
Model Number		Option	Operating Temperature	Comments				
GNS-301-ODU		ODU no Air-conditioning or heater	-20°C to +45°C	-				
GNS-301-ODU-H		ODU fitted with Heater	-40°C to +45°C	-				
GNS-301-ODU-A		ODU fitted with Air Conditioning	-20°C to +65°C	Max air ambient 55°C, spot				
GNS-301-ODU-AH		ODU fitted with Air Conditioning and Heater	-40°C to +65°C	temperature up to 65°C				



GNS-301-ODU/GNS-301-ODU-A/ GNS-301-ODU-H/GNS-301-ODU-AH

RF Module Options									
Amplifier	BUC/LNB Power Supply	Frequency Converter	Matrices	Redundancy Switch	RF Over Fibre	Test Loop Translator (TLT)			

Custom RF modules may be available - If you have a requirement which isn't listed in the RF module options table please contact us.

For modules technical specifications, refer to product specific datasheet.

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.