

Model Number: GNS-301-ODU/ GNS-301-ODU-A/GNS-301-ODU-H/ GNS-301-ODU-AH

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 costefficient solution with field-replaceable components.

Typical applications:

- Teleports, ground stations, maritime high resilience applications and unmanned sites.
- High resilience RF distribution where single points of failure can be minimised.
- Redundancy applications for remote satellite teleports.
- V/HTS gateways
- Signal distribution Amplifiers, BUC/LNB Power Supply's, Frequency Converters, Matrices, RF over Fibre, Redundancy Switches, Test Loop Translators are available.

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



Compact & flexible ODU chassis holding up to 19 RF modules, which can be mixed.



Remote control & monitoring via RJ45 Ethernet via RJ45, 10BaseT/100BaseTx, ETL TCP/IP protocol, -SNMPv3 & Web Browser Interface



Resilience from dual redundant hotswap power supplies & field serviceable RF modules & CPU

- -Optional Air Conditioning units for higher operating temperature
- -Optional hot swap HMI.













10MHz reference source Optional user replaceable internal and external 10MHz reference & distribution source. (refer to separate datasheet)



Secure Communications with SNMPv3. HTTPS



Flexible Signal Distribution

Frequency converters, Redundancy Switches (N+1), RF Over Fibre, Matrices and LNB Power Supply Modules are available.

ETL SYSTEMS LIMITED Coldwell Radio Station Madley Hereford England HR2 9NE

TELEPHONE +44 (0)1981 259020

info@etlsystems.com

FACSIMILE +44 (0)1981 259021

www.etlsystems.com













Model Number: GNS-301-ODU/ GNS-301-ODU-A/GNS-301-ODU-H/ GNS-301-ODU-AH

General Specifications				
Capacity	Up to 19 RF modules Note: Actual number dependent upon module type fitted. (Can accommodate FALCON 4-slot modules in 2+1 configuration, please enquire if required). 500mm high x 500mm wide x 300mm (TBC for AC option) deep Please confirm size requirements with ETL prior to order.			
Dimensions				
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				
Deliability.				

	Control & Monitoring		
Local Control	HMI, capacitive touchscreen (option)		
Remote Control & Monitoring	Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP protocol SNMPv3 & HTTPS Built-in Web Server		

		Environmental		
		-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 Storage temperature Humidity		Outdoor or Indoor use IP65 AC unit reduces IP rating to IP54 -40°C to +80°C Not Powered		
		Altitude	Operational	10,000 ft AMSL (Above Mean Sea Level)
Aillude	Storage	30,000 ft AMSL (Above Mean Sea Level)		

		Reliability		
MTTR		15 minutes to replace. Assumes spares at hand. Applies to LRUs only and assumed in house stock.		
MTBF	Chassis	> 250 000		
WIIDE	CPU	> 250 000		
Hot-swap / Field serviceable components		Dual redundant power supplies, RF modules, CPU, internal 10MHz reference source & HMI (if fitted)		

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 temperature up to 65°C		
GNS-301-ODU-AH	ODU fitted with Air Conditioning and Heater	-40°C to +65°C			

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.

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