

HAL 2

Localization & Data Collection

ARGOS II and SCD UHF Transmitter



High Performance Transmitter for ARGOS and SCD

- Low noise, High stability Synthesizer
- Programmable ID Code length
- Very Low Power consumption
- Programmable Frequency within the ARGOS II and SCD band
- Operational even with mismatched antennas
- Programmable Output Power
- Transmit on 1, 2 or 3 addresses
- High Efficiency low peak current
- Programmable Transmission Delay
- Programmable Transmit / Receive sequence

Built-in Data Acquisition Functions

- 4 Analog Input channels
- 1 Counter Input
- Internal Temperature measurement
- Emitted Power measurement

Key features

ARGOS and SCD compatible

High stability frequency

Low size and low weight

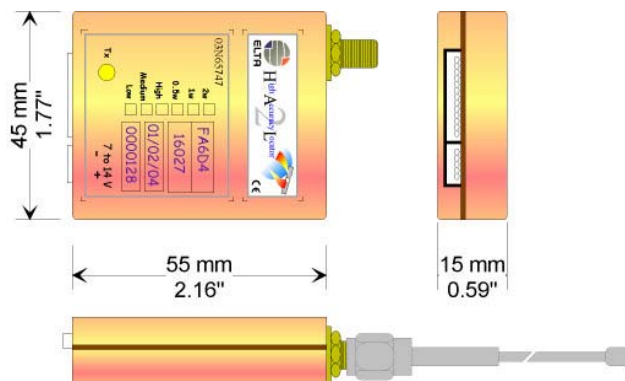
Low power consumption

Operational even with mismatched antenna

Extended operating temperature

Built-in data acquisition functions

Programmable with standard RS232 Interface



General features	
Part Number: P/N	03N65747
Frequency Stability	< 10 ⁻⁹ on the operating range
Programmable Frequency	401.6 – 401.7 MHz
Programmable Output Power	0.5, 1 or 2 Watts
Programmable ID Code length	20 or 28 bits
Programmable Transmission delay	0 – 255 days
4 Analog Input channels	0 – 3.3 VDC (10 bits resolution)
1 Counter Input channel (3.3 VDC Digital Input)	0 – 10 Hz (32 bits resolution)
Internal Temperature measurement	-40°C to +60°C (10 bits resolution)
Internal Power measurement (at antenna connector)	0 – 2 Watts (10 bits resolution)
Antenna Connector interface	SMA 50 Ohms
Input-Output Connector interface	MOLEX 12 pins
Power Connector interface	MOLEX 5 pins

Electrical characteristics	
Voltage	7 – 14 Volts @ 2 Watts 5 – 14 Volts @ < 0.5 Watt
Consumed Power in sleep mode	< 50 µA
Consumed Power in warm-up mode	< 5 mA
Consumed Power @ 2 Watts or 33 dBm	< 650 mA
Consumed Power @ 1 Watt or 30 dBm	< 450 mA
Consumed Power @ 0.5 Watts or 27 dBm	< 350 mA

Mechanical characteristics	
Size	1.77 in x 2.16 in x 0.59 in 45 mm x 55 mm x 15 mm
Weight	50 g
Storage Temperature	-55°C to +75°C
Operating Temperature	-40°C to +60°C

Accessories	
Fixation Kit	P/N : 03N66173
Connectors Kit	P/N : 03N66172
Housing for Outside Use (SMA female connector)	P/N : Please contact ELTA
Housing for Outside Use (N female connector)	P/N : Please contact ELTA
Coaxial Bypass SMA-f / SMA-f	P/N : 27708
Coaxial Bypass SMA-f / N-f	P/N : 27709
Antenna λ/4 401MHz SMA-f	P/N : 99N6037
Antenna λ/2 for Mast mounting N-f	P/N : 27710
1 meter antenna cable with SMA-f connectors	P/N : 27706
5 meters antenna cable with N-m connectors	P/N : 21875
10 meters antenna cable with N-m connectors	P/N : 17410



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Electronics for Harsh Environments