

# CCT TRANSCEIVER KU 180W

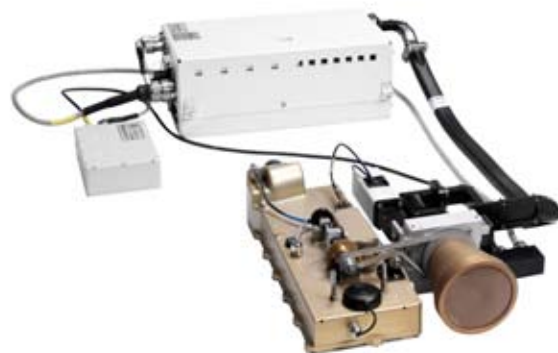
- ***Ultra compact and powerful enabling a sleek and attractive pod.***

The CCT Transceiver Ku 180W is based on the CommuniCase® Technology. Part of the most versatile terminals available.

The **CCT Transceiver Ku 180W** - is one of the seven modules of the CommuniCase® Technology's (CCT) unique architecture providing you with a system that can change key characteristics. Two versions are available CCT Transceiver Ku 180W and CCT Transceiver Ku 180W Co-pol.

The innovative CCT SDS - (Smart Distributed System) detects which CCT Transceiver you have and automatically updates the system and the GUI - no installation, no CDs, no hassle - the GUI will adapt and change!

Allowing you to focus on the mission and us on the technology.



## KEY FEATURES

**Super power and super compact** - At the same time the CCT Transceiver Ku 180W delivers unsurpassed power in the smallest package.

**Future proof** - A modular system allowing you to upgrade key characteristics of your existing SWE-DISH Drive-Away terminal leveraging your investment.

**Easy to use** - The market unique CCT SDS (Smart Distributed System) enables you a easy way of changing your system and the system automatically adjusts - hassle free operations.



# CCT TRANSCEIVER KU 180W

## GENERAL FEATURES

Features	Low loss due to short waveguide Advanced M&C through unified GUI
Size	Feed kit: 400 x 460 x 100 mm (15.7 x 18.1 x 3.9 in) BUC: 109 x 43 x 178 mm (4.3 x 1.7 x 7.0 in) TWTA: 133 x 348 x 183 mm (5.2 x 13.7 x 7.2 in)
Weight	15.5 Kg (32.5 lb)
Operating temperature	-15° C to +45° C (+5° F to +113° F)
Sealing class	IP65
Polarization	CCT Transceiver Ku 180W: Linear, Cross-pol CCT Transceiver Ku 180W Co-pol: Linear, Cross- and co-pol (switchable)
Polarization range	190°

## TRANSMIT SPECIFICATION

RF architecture	180W rated TWTA with external reference BUC		
Transmit frequency & IF	13.75 – 14.50 GHz IF 950 - 1 700 MHz supplied from CCT Network Processor (LO=12.8 GHz)		
Output power (Psat)	51.8 dBm		
Gain	BUC: 0 – 25 dB in 0.5 dB steps	TWTA: 61 dB - Fixed gain	
Gain stability	BUC: ± 0.5 dB @ 0° C to +40° C	TWTA: ±0.5 dB @ 0° C to +45° C	
Gain flatness	Maximum ±1 dB		
Phase noise	@ 1 kHz: Maximum –80 dBc/Hz @ 10 kHz: Maximum –85 dBc/Hz @ 100 kHz: Maximum –95 dBc/Hz @ 1 MHz: Maximum –120 dBc/Hz		
Spurious	–60 dBc (in band carrier related)		
Out of band noise	< -140 dBW/4 kHz		
Frequency stability	±0.1 ppm over temperature		

## RECEIVE SPECIFICATION

RF architecture	High rejection notch TRF, 58 K PLL LNB		
Receive frequency & IF	10.95 – 11.70 GHz IF 950 - 1 700 MHz (LO=10 GHz)	11.70 – 12.20 GHz IF 950 - 1 700 MHz (LO=10.75 GHz)	12.25 – 12.75 GHz IF 950 - 1 700 MHz (LO=11.3 GHz)
Noise figure	0.8 dB typical @ 25° C (77° F)		
Conversion gain	60 dB typical @ 25° C (77° F)		
Conversion gain variation	Maximum 2 dB in any 50 MHz segment over the frequency band		
Phase noise	@100Hz: –57 dBc/Hz, @1kHz: –67 dBc/Hz		
Spurious	Maximum –50 dBc, with test CW signal –10 dBm IF output		
Frequency stability	±2.5 ppm over temperature		

Specifications are subject to change without notice, and this datasheet will not form part of any contract. 2009-05-27