

# TX digicast



Tomorrow's Broadcast Solutions

TX-DAB100 OCR



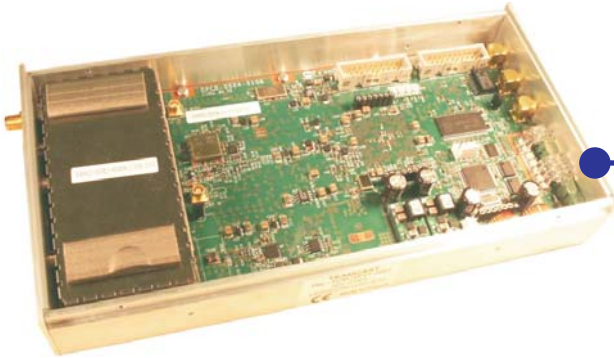
DAB

The TX-DAB OCR series of echo-cancelling repeater transmitters provide a complete and highly reliable SFN DAB re-broadcast solution in one product.

Ideal not only for gap-filling and network densification, the TX-DAB OCR range can also be used for repairing coverage deficiencies caused by ACI (Adjacent Channel Interference) and improving in-building coverage. In fact, it can replace a conventional DAB transmitter in many applications.

The integrated receiver and transmitter architecture increases reliability, reduces maintenance, and requires just 3U of rack space.

# FEATURES



Fully automatic real-time echo-cancellation

State of the art DSP echo-cancelling techniques

Intelligent dynamic power output control ensures continual feedback stability

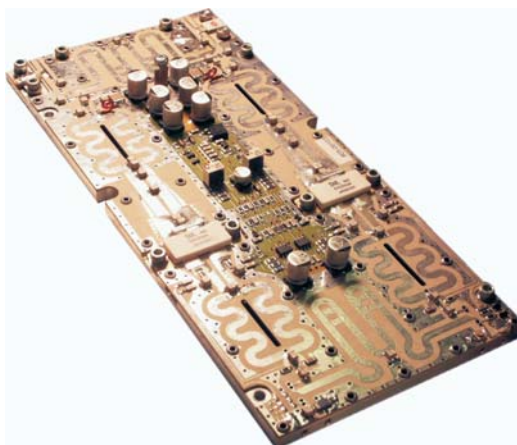


PWM temperature dependant fan speed control for increased blower life

FWD Pwr	097.1W
REF Pwr	22.9dB
RX input	-44dBm
Coupling	-20.3dB

Front panel LCD and PC GUI-based control and monitoring

Optional remote interface available to suit user requirements

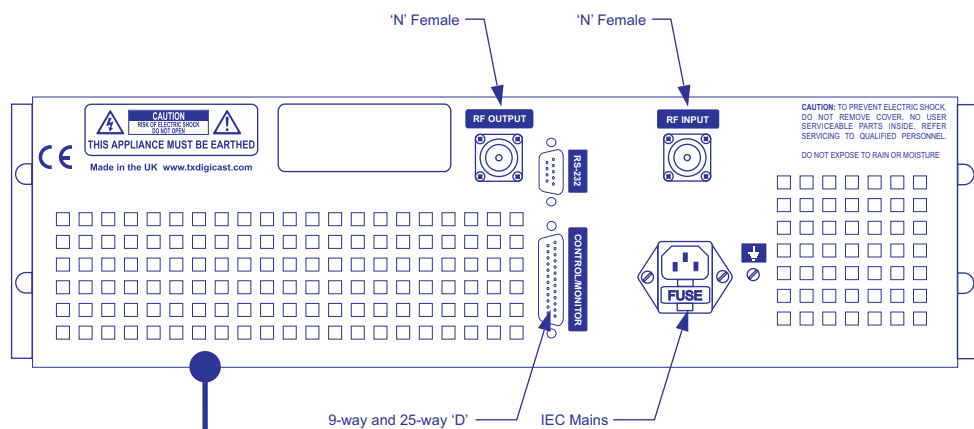


High reliability TetraFET power amplifiers with digital pre-correction

Designed for easy maintenance

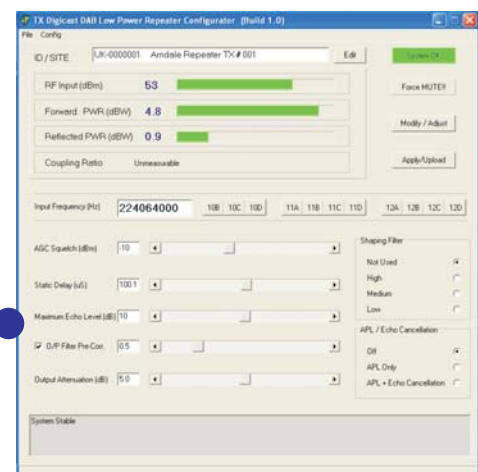
# BENEFITS

- Re-broadcast system saves recurring telecom costs
- Echo-canceling technology at powers of up to 100W
- Compact 3U enclosure saves real estate costs
- Simple menu structure for easy 'plug and go' set-up
- Integrated design for high reliability and low maintenance



Rear panel connectors

RS-232 Remote PC Graphical User Interface



# SPECIFICATIONS

<b>General</b>	
Dimensions 3U 19" rack mountable	HxWxD (mm)133 x 404 x 505
Weight	18kg
Case	Aluminium alloy
EMC	EN55022(7)
<b>Connections</b>	
AC mains	IEC 320
Supplementary earthing	M4 x 20mm stud
RF input	N-female
RF output	N-female 50 ohm
RF monitor	BNC-female 50 ohm (nominal -40dB)
RS232	9 way sub-D female (57600-8-N-1)
Control/monitoring	25 way sub-D female (TTL)
<b>Environmental</b>	
Nominal operating temperature	+5 to +40° C
Storage	-10 to +70° C
Cooling	Forced air, temperature controlled blower speed
Air volume	150M <sup>3</sup> /h
Minimum Blower life (L10)	60,000 hours (average 300,000 hours)
<b>Power input</b>	
Voltage	100 to 240 VAC 48 to 62 Hz
Consumption	562W max
Power factor	<0.95
<b>RF Input/Output</b>	
Frequency range	174.928 - 239.200MHz (1Hz step)
RF input range	-65 to -35dBm (-50dBm nominal)
Recommended maximum echo	+10dB
Echo cancellation range	0 to 10µS
Absolute maximum echo (reduced performance; output power will automatically be reduced above this level)	+15dB
Output power	100W
Power stability	Better than ± 0.25dB
External load mismatch	VSWR 2:1 no degradation in Pout at all phase angles
IP shoulder (before filter)	> -30dB
Spurious (after filter)	ETSI EN 302077-2
Optional remote interface	RS232 (ASCII), Ethernet RJ45 (TCP/IP), GSM (SMS), SNMP and E-mail (via Ethernet)

In line with our policy of continual development, we reserve the right to alter specifications without notice



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