High Performance Base Stations and Repeaters

MX800 OPTIONS

24 September 2004

Number	Description
T01	Programmable channel spacing for applications in systems, which require both 12.5 kHz and 25kHz channels. Each RF channel can be set as required for either BW.
T02	Non-predictive Full Duplex CTCSS encoder/decoder. Includes a "community panel" style multiple frequency CTCSS decoder and encoder function. Simplex DCS.
T03	Full Duplex CTCSS and DCS encoder/decoder. Includes a "community panel" style multiple frequency CTCSS decoder and encoder function.
T04	Transformer balanced and isolated VF Line inputs and outputs via rear RJ45 connector.
T05	Transformer balanced and isolated VF Line inputs and outputs via rear RJ45 connector as per option T04 as well as isolated E (PTT) and M (Mute) leads.
T06	For simplex applications an internally mounted coaxial changeover relay is fitted to the chassis. Located at the rear as the common Antenna port.
T07	Turn Around Mixer for self test. Special, consult Spectra.
T08	This option provides a digital delay of 40mS to the received audio. When this option is fitted, delayed audio is fed to Line and Talk-Through-Repeater paths but discriminator audio output is un-delayed. Removes the short noise burst from receiver's Squelch/Mute close time.
T09	This option provides additional CTCSS tone suppression specification for the RX VF.
T10	Low Standby Current mode for solar powered sites and other power critical applications. Reduces nominal current drain and provides additional features to allow power down of the exciter and duty cycling of the receiver.
T11	This option combines the functions and features of T08, T09 and T10.
T12	Provides for the TX reference frequency to be externally injected into the rear BNC connector. Can except a range of reference frequencies. Transmitter DC-FM modulation feature is not available with this option.
T13	Local speaker volume control and microphone socket (Mic not supplied).
T14	Push wheel channel selector switches allow front panel selection of the operating channel. 99 channel selections available.
T15	Internal RF modem. Consult Spectra on this option.
T16	1PPM frequency stability over -30deg C to +60° C. Suitable for 12.5kHz channels on 400MHz or higher and 25kHz channels on 800MHz or higher frequencies. Lower frequencies have reduced DC-FM capability.
T17	Redundant, as incorporated in T16 option.
T18	Extended low temperature (-30deg C) factory Verify test certification.

T19	Line Interface Board. Tone PTT decoder with AGC on Tone, 2W-4W Conversion, RX Status Tone, RX Mute Status Tone, Variable Tone Voting, Dual E+M.
T20	Reserved
T21	4 Way DIN Ant C/O socket at rear, allows external Antenna C/O relay
T22	RX noise limiter.
T23	US&S Option chassis variant, pcb, RCA jack for relay.
T24	RST Cell Extender Cabling.
T25	Nokia LIC Interface. Provides suitable connection points for Nokia Actionet LIC
T26	2W-4W Conversion, RX Status Tone, RX Mute Status Tone, Variable Tone Voting, Dual E+M.
T27	Extended Warranty (cost per year).
T28	Additional RX IF Amplifier. Used in some LTR systems to reduce multi-path modulation effects.
T29	Balanced and Isolated VF I/O with E&M Lead. (Same as Opt T05 but RJ45 pin out to AS3080). Connects directly to "Omnitronics" bridge
T30	PPS12 power supply lead packed with MX800.
T31	Digital I/O Expansion Card #
T32	Front Panel adjustable Line I/O levels. Front panel RS232 port (in parallel with rear port) *
T33	Internal dial up PSTN modem. World wide approved #
T34	Ethernet access to MX800 serial port #
T98	Alignment instruction, to provide a transmitted audio characteristic similar to that of a mobile radio, whereby the compression point audio deviation is changed from nominal to peak. Thus providing a louder audio transmission but increased hard limiting and distortion.
T99	Alignment instruction, when interfaced with a Trident Controller (LTR Trunking system). Used in conjunction with T28 option. This option is currently available only in Narrow Band.

* T32 only available in conjunction with T13
# Under development