

APPENDIX A - TRANSCEIVER CONNECTIONS

A.1. MICROPHONE / HANDSET CONNECTOR

The Transceiver front end-cap has a 8 pin RJ45 Microphone / Control Unit / Serial Control / Programming connector:



Figure A.1 SRM9000 RJ45 Pinout (S1)

Name	Pin Number	Comment
Tx-Data (0,5V)	1	Output. Low = 50mA sink to GROUND, High = 6k8 Ohm pull-up to 5V 200 Ohm series Impedance Diode Clamped to 0 & +5V
Rx-Data (0,5V)	2	Input. Low < 0.5V, High > 2.5V Internal 6k8 Ohm Pull-up to 3.3V 780 Ohm series Impedance Diode Clamped to 0 & +3.3V
On/Off input	3	Input. Low < 5V, High > (Supply Volts – 1.5V) or O/C Internal 220kM Ohm Pull-up to Supply Voltage 680k Ohm series Impedance Diode Clamped to 0 & Supply Voltage
Mic Ground	4	Connected internally to GROUND (see below)
+13.8V (Switched OP)	5	Switched + Supply Voltage 250mA max source current
Handset Audio OP (Flat)	6	Output: * Note-1 AC coupled (10uF) to 0/5V OpAmp Output 245mVrms (nominal) for 60% RF deviation of 1000Hz tone. 600 Ohm series Impedance Diode Clamped to 0 & Supply Voltage
GROUND	7	Internally connected to Transceiver –VE Supply Input.
Mic Audio IP	8	Input : * Note-2 40mVrms at 1kHz = 60% RF Deviation >1k Ohm series Impedance Diode Clamped to 0 & Supply Voltage