



## IHM - COM53 Base Station Remote Controller

The IHM-COM53 is used for controlling remote radio base stations via IP networks, keeping high quality audio.

The **IHM-COM53** uses UDP signaling which allows standard radio signaling and high quality audio to be transferred via VoIP.

### Functions included:

- Integrated CCIR/ZVEI DSP for fall back repeater functions.
- RS232 port included for data transmission or for transceiver channel, power control and squelch threshold control.
- I/O ports for monitoring and control of for example intrusion, mains power failure, low battery voltage and/or VSWR failure.

### **IHM-COM53** is using *static* IP addressing which provides:

- ✓ Possibility for VPN (encryption)
- ✓ Line/link connection control
- ✓ Remote firmware update and programming

The IP network can either be company LAN/WAN, a new established wireless LAN or even the Internet.  
COM53 only needs to be connected to a standard 10/100 Mb LAN switch or router port.

### IHM COM53 Interfaces:

- Tait TB7100, TB8100, T800
- TP Radio BS2000, TP6000, TP929
- Motorola CM, GM Series, MTR 2000, MTR3000
- ICOM 110A
- Sailor 6000 series

With its flexible/programmable radio interface, it may also support other types and brands than listed above

### IHM-COM53 technical specifications:

Power supply: 10.6 - 30.0 VDC

Consumption: <250mA at 12 V

### LAN Interface:

Interface: 10/100Mbit

Bandwidth: 128/128 kbit per uncompressed channel  
(AF/RS232) or 64/64 kbit per channel  
when AF is compressed

Required Latency: <150msec one direction,  
<300msec both directions

### Radio interface x 2:

AF 600 ohms unbalanced, nominal -10dBm.

	Max	Min
AF output level:	-3dBm	-25dBm
AF input level:	-3dBm	-25dBm
TX key output:	Relay dry contact	
Squelch input:	Logic 0 or 1	
RSSI:	0-5V DC	
Connector:	PDS 8/8 (RJ45)	

### RS232 port:

COM1:	RXD, TXD, GND
COM2:	RXD, TXD, GND
Connectors:	2 x PDS 6/6

### I/O port:

Inputs:	5 - Logic 0 or 1
Outputs:	6 - open collector
Connector:	26 pin for flat cable - IHM stock no.: 60-38-26

Box size: 110 x 130 x 28mm (w x d x h)

PCB size: 100 x 120 x 20mm (w x d x h)

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