Technical Data



WATKINS-JOHNSON

October 1996

Multichannel Receiver Family WJ-866X Configuration

	Standard Equipment									
	MRS		PRT			PPS		RPS		
Options	DCT	MCR	MRS	DCT	MCR	PRT	PBC	PPS	PBC	RPS
866X/AUD	NO	YES	UO	NO	YES	STD	YES	UO	YES	UO
866X/BFP	YES	YES	STD ¹	YES	YES	NO	YES	NO	YES	YES
866X/CEPT	NO	YES	UO	NO	YES	UO	YES	UO	YES	UO
WJ-866X/CTS ²	NO	NO	YES	NO	NO	STD	NO	STD	YES	NO
866X/MSP	NO	YES	UO	NO	YES	UO	YES	UO	YES	UO
866X/GPSR	NO	YES	UO	YES	YES	UO	YES	UO	YES	UO
866X/MR ³	NO	YES	UO	NO	YES	UO	YES	UO	YES	UO
866X/NBC	NO	NO	YES	NO	NO	STD	NO	YES	YES	STD
866X/PBT	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO
866X/PRE	YES	NO	UO	STD	NO	STD	NO	NO	NO	NO
866X/SCSI	NO	YES	UO	NO	STD	UO	STD	UO	STD	UO
866X/T1	NO	CF	UO	NO	CF	UO	CF	UO	CF	UO
866X/232	NO	STD	UO	NO	STD	UO	STD	UO	STD	UO
866X/BASE-T	NO	CF	UO	NO	CF	UO	CF	UO	CF	UO
RACK SLIDES	YES	YES	UO	YES	YES	NO	NO	NO	YES	YES

LEGEND: YES Available for unit configuration

NO NOT available for unit configuration
UO Optional at unit level, not system level

STD Provided as standard component of configuration

CF Contact factory for availability

NOTES: 1 One WJ-866X/BFP provided as standard component of this configuration

2 The WJ-866X/SCSI option provided as part of option

3 Requires WJ-866X/AUD Option

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This material provides up-to-date general information on product performance and use. It is not contractual in nature, nor does it provide warranty of any kind.

The modular design of the WJ-866X family provides a flexible means of selecting optional accessories to enhance individual application requirements. The matrix on page 1 lists all the options associated with these products, and their applicability to each unit and system. The following table summarizes the capabilities of the individual options listed in the matrix.

Options

Model #	Functions	Physical Characteristics
866X/AUD 12-channel Audio Reconstruction	 Provides analog audio output signals of 175 to 3850 Hz, from 12 operator-selected voice-grade channels (VGCs) Allows connection of audio outputs from AUD to external audio monitoring equipment 	Consists of: 12-channel audio PC assembly Internal cable assembly including 25-pin D-type connector mounted in one of two available rear panel rectangular connector slots External cable assembly with mating 25-pin connector for receiver, and 12 BNC connectors on other end for audio output Cable plug-marking kit
866X/BFP Blank Front Panel	Aids rackmounting of DCT & MCR units into standard 19-in (48.26 cm) equipment rack	Consists of: 1.75-in (4.44 cm) half-rack unit that attaches to DCT for 3.5-in (8.89 cm) half-rack configuration, or 1.75-in (4.44 cm) full-rack configuration
	2 attached BFPs create 3.5-in (8.89 cm) half-rack unit for side-by-side mounting with another half-rack unit (i.e., MCR or CTS)	 Pretapped holes on sides of BFP aid installation of optional rack slides BFP weight & dimensions are: 8.32-in (21.13 cm) wide 1.710-in (4.34 cm) high 15-in (38.1 cm) deep, excluding handles 2.5 lbs (1.13 kg) 1 BFP standard with each MRS
866X/CEPT CEPT Formatter	 Provides voice-grade data outputs in the form of primary level CEPT PCM stream (2.048 Mbps, 30-channel capacity) 	Consists of CEPT Formatter Assembly & Internal Cable Assembly
	 Makes 75 ohm, unbalanced output available 	Standard BNC connector mounts in one of the two available rear panel circular connector slots
WJ-866X/CTS Cartridge Tape Subsystem	Stores 5 GB of data - approximately 20 hours of audio & Signal-Related Information (SRI) data	Consists of: High-density cartridge tape drive, with removable 8-mm cartridges Power supply for tape drive
		 Mounts in 3.5-in (8.89 cm) half-rack Includes 866X/SCSI option

Model #	Functions	Physical Characteristics
866X/GPSR General-purpose Surveillance Receiver	Enables WJ-866X products to function on command as general-purpose narrowband receivers Provides: 20 to 1000 MHz tuning range in 100-Hz steps AM, FM, CW, USB, LSB, ISB detection modes Selectable IF bandwidths of 0.1, 0.2, 0.5, 1.0, 2.0, 3.2, 5.0, 6.4, 8.0, 10.0, 15.0, 20.0, 25.0 & 30.0 kHz Manual or automatic gain control CW detection mode with BFO capability, adjustable over ±3000-Hz range	Factory installed firmware only Additional windows in applications program include: IF pan display with 30-kHz display bandwidth RF spectrum display with lockouts capability
866X/MR Microcassette Recorder	 Records intercepted voice traffic onto tape for later playback & analysis Features Variable Control Voice Actuator for hands-free start/stop recording Senses audio input, then automatically records If audio input is disabled, recording automatically ceases Eliminates need for special system setup or reconfiguration, since operating inside PRT carrying case 	Consists of: 3 microcassette tape recorders (powered by internal AAA batteries) for up to 5 hours recording time Interconnecting cable (1 end attaches to AUDs 25-pin output connector, 1 end has 3 mini-microphone jacks to plug into recorders) Audio inputs to recorders from 3 AUD audio channel outputs Requires AUD option
866X/MSP Master Slave Processor	Enables up to 3 MCRs to pass SRI data & audio between master & slave MCRs	Data passes via TDM interface bus Consists of: MSP Interface PC Assembly
866X/NBC Notebook Computer	Provides hardware & software for local operation	Consists of: Customer-selected laptop computer in carrying case PS/2-compatible mouse Standard 9-pin male to 9-pin female RS-232 cable Convenient, pre-installed applications program software & Windows month of the PRT system carrying case Contact factory for details

Model #	Functions	Physical Characteristics
866X/PBT Portable Battery	 Provides alternative, portable power source Provides approximately 1 hour constant-on operation (depending on actual system use) Enables totally portable, self-sufficient operating system 	Consists of: Sealed, lead-acid, 12-V rechargable battery (installed in its own carrying case) with interconnecting cables 12-V battery charger 220/240 Vac to 120-Vac Converter/Transformer
866X/PRE Preamplifier/Splitter	Provides 2 RF inputs to DCT from 1 antenna	External device Combines low-noise amplifier & 2-way power divider in 1 package Connects directly to RF 1 IN & RF 2 IN connectors
866X/SCSI SCSI Interface Controller	 Provides (SCSI-2) compatible interface Allows storage of audio & SRI data on SCSI-2 compatible storage device such as WJ-866X/CTS 	Supports Sequential Access Device tape drives Consists of: SCSI Interface PC Assembly Internal cable assembly including SCSI style connector mounted in one of two available rear panel rectangular connector slots External cable for interfacing with 866X/CTS
866X/T1 T1 Formatter	Provides standard T1 PCM data stream output containing up to 24 selected VGCs	Consists of T1 Output Formatter PC Assembly & Internal Cable Assembly Standard TRIAX connector mounts in one of two available rear panel circular connector slots
866X/BASE-T	Provides a 10BASE-T TCP/IP compatible Ethernet Interface	Consists of an Ethernet Remote Control PC Assembly and internal cable assembly with RJ-45 style connector
866X/232	Provides a rear panel RS-232 interface	Consists of an internal cable assembly LEMO style connector mounts in one of two available rear panel circular connector slots A mating connector is provided as an accessory item
MCR/RACKSLIDE	Provides rackmount capability for WJ-866X family	Jonathan-style Request at time of order