

TEK4 Pro TekMonitor

70005 Data Sheet

The TEK4 Pro TekMonitor is the 4th generation of TEKVOX's series of TekMonitor networked A/V controllers. This family of controllers is designed as the heart of remotely-monitored, distributed control and management systems, complete with interchangeable device drivers and advanced asset management. The TEK4 Pro includes significantly upgraded memory and I/O, as well as a powerful ARM-based processor running a Linux operating system. Dual Ethernet ports and an internal DHCP server allow the TEK4 Pro to generate a secure, local A/V network, reducing the number of network connections needed for complex systems and ensuring continued system operation during network outages. It is also powered via PoE (Power Over Ethernet) for streamlined cabling and installation.

The TEK4 Pro includes dual TekSecurity ports, allowing it to provide real-time anti-theft protection for multiple displays at once. It is fully compatible with all TEKVOX configuration, programming, remote monitoring, and enterprise management tools, and will operate seamlessly in place of any previous generation of TekMonitor.

Features:

- Dual Ethernet ports and internal DHCP server for local A/V network
- Supports TekSecurity anti-theft protection for two displays or projectors
- Analog input and output for voice communication/recognition applications
- Simultaneous, independent serial control of up to 6 devices
- Powerful NXP i.MX ARM processor for open, scalable performance
- Ultra-low (<3W) power consumption
- Javascript and Lua scripting capability
- General-purpose USB 2.0 OTG port for flexible interfacing with other devices



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70005 Technical Specifications

Ethernet Interface	2x RJ45, Female
Data Rate	10/100Base-T, half-full duplex with auto-negotiation
TekSecurity (S1 & S2)	2x RS232 (RJ12, Female)
RS232 Interface (S3)	3-pin terminal block, female
Occupancy Sensor Interface (OCC)	3-pin terminal block, female
Flexible I/O Interface (GPIO)	RJ45, Female
RS232 Interface (S4, S5)	2x RJ45, Female
RS232/RS485 Interface (S6)	1x RJ45, Female
Audio Input	3.5mm mini jack, line level
Audio Output	3.5mm mini jack, line level
Processor	NXP iMX6ULL, single Cortex-A7 core SoC @ 900 Mhz
Memory	512 MB 400 Mhz DDR3 Memory
Storage	8 GB eMMC storage
Operating System (OS)	Embedded Linux Operating System w/ Javascript and DHCP server support
Scripting Support	C# via .Net 8 Core, Nodejs, and Lua
Power Supply	Power over Ethernet (PoE) via LAN 2
Temperature	32 ~ 122°F (0 ~ 50°C)
Enclosure Type	Aluminum
Product Dimensions	6.9" (176mm) x 3.4" (86mm) x 1.5" (39mm)
Product Weight	0.65 lbs. (294g)
Compliances	FCC Class B, Canadian ICES-003, CE

Specifications are subject to change without notice



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RS232 Port Pinouts

Port Type	Port Label	Connector	Pin No.							
			1	2	3	4	5	6	7	8
TekSecurity	S1	RJ12	LED+	GND	TX	RX	Sense	LED-		
TekSecurity	S2	RJ12	LED+	GND	TX	RX	Sense	LED-		
RS232	S3	3-Pin	GND	TX	RX					
RS232	S4	RJ45	GND	TX	RX	GND	GND	24V	24V	24V
RS232	S5	RJ45	GND	TX	RX	GND	GND	24V	24V	24V
TekBus	S6	RJ45	GND	TX/ TEKLINK+	RX/ TEKLINK-	GND	GND	24V	24V	24V
GPIO	GPIO	RJ45	GND	I/O 1	I/O 2	RLY 1A	RLY 1B	RLY 2A	RLY 2B	24V
LAN	LAN 1	RJ45	TX+	TX-	RX+	DC+	DC+	RX-	DC-	DC-
LAN	LAN 2 (PoE)	RJ45	TX+	TX-	RX+	DC+	DC+	RX-	DC-	DC-
Sensing	OCC	3-Pin	GND	OCC	24V					