

SmartTrunk Systems

SmartTrunk Now Delivers a Menu of Enhanced Calling Features to your Single- or Multi-site System

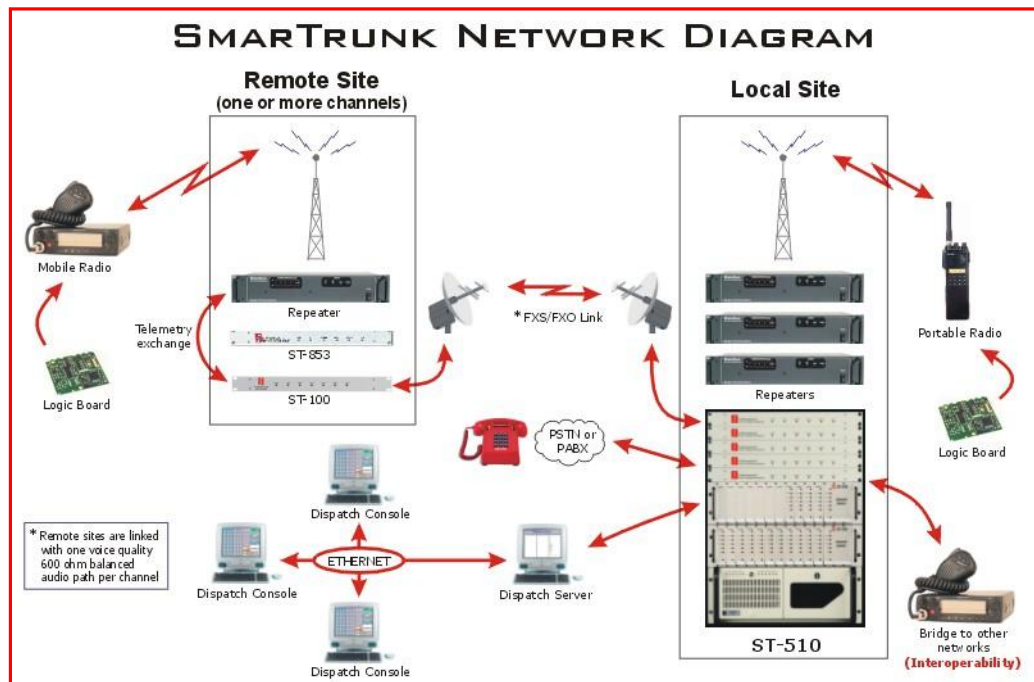


Although “Trunk” is part of our name and our 14-year focus has been on trunking products, SmartTrunk can not only create feature-rich single- or multi-site trunking systems, but can also add many features to single-repeater systems. Adding the full-featured ST-510 can make your radio system much Smarter!

SMARTRUNK OFFERS YOU THESE BENEFITS:

- Single channel systems can be upgraded to offer selective and group calling along with very Smart PABX/PSTN interface
- Decentralized protocol does not require exclusive channels
- Compatible with most new or existing repeaters and most popular radio brands
- Users in even a single repeater system can be split into work groups
- Independent repeaters in a system can be trunked together
- Economical to expand channels and/or sites
- System can incorporate Voice Mail, Call Forwarding, Call Transfer, Caller ID, Encryption, Alpha-tagged Speed Dialing, etc.
- Remote roaming sites can consist of one or more channels
- Optional stand-alone or networked dispatch console offers intuitive operation
- Optional voice logger
- Simplified multi-site link requirements
- Remote site telemetry
- Voice scrambling available in some radio models
- Radio “Emergency Alert” Compatibility

Below is a Diagram of a Typical SmartTrunk system:



A system's menu of features and services can be expanded in building-block fashion. As a system expands, existing hardware is used. This keeps expansion costs below that of competitive systems.

With SmarTrunk, you can now have powerful calling features...

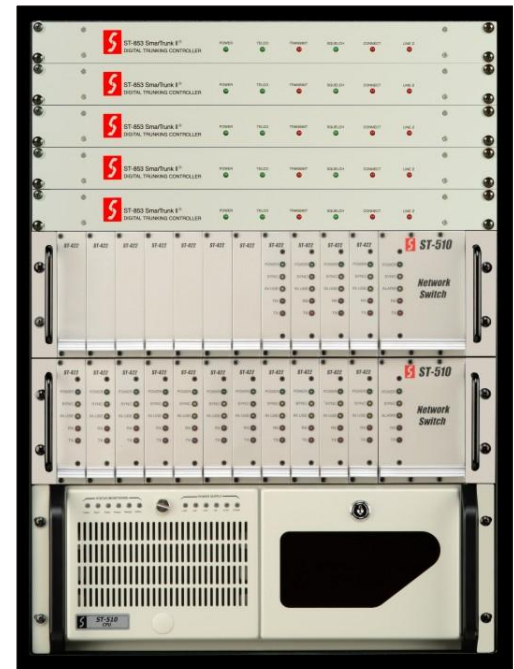


The ST-853 controller is the basic building block of a SmarTrunk system (one per repeater). It tracks user status, keeps call records and manages trunking functions in systems of more than one channel. Also manages the PABX/PSTN interconnect features.

- Easy to interface to almost any repeater
- Capacity for 4,096 subscribers and 4,500 call records
- Encrypts over the air page codes (Unit and Group ID's)
- Can keep call records for all users or only ones so designated
- Each user has his own unit ID (Enables selective calling and caller ID's)
- Many features can be easily assigned or denied on a per-user basis (Courtesy beep, mobile activity timer, telephone line access, call restrictions by various attributes).
- Two telephone lines (PBX or Outside) can be accessed on a programmable basis
- Emergency system override through an incoming telephone line
- Intuitive routing of different classes of calls
- Can operate together with CTCSS tone panel for migrating conventional users
- Immediate PTT operation after initial channel access
- Radio-to-radio caller ID
- Privacy between users during individual or group calls

The ST-510 switch can expand and enrich a basic SmarTrunk system by adding many new features. The ST-510 consists of a CPU and many identical ST-422 Multifunction Interface Cards which simplifies maintenance and spares inventory.

- Voice Mail
- Call Forwarding to another radio or telephone
- On-the-Air call transfer to another individual radio or group
- Pre-Recorded Information Service for subscribers
- Late-to-join or lost radio group rejoin capability (3G)
- Dispatch Console with touch screen individual calling, dynamic regrouping and pre-programmed emergency groups
- Virtual (one time) groups are joined on a single channel (3G)
- Voice logger (Can be searched by user, date, time, destination, type of call, length of call)
- Detailed usage data base with billing option
- Network statistical reports
- Wide Area-Multi Site roaming
- Automatic user registration at a new site or upon radio power on (3G)

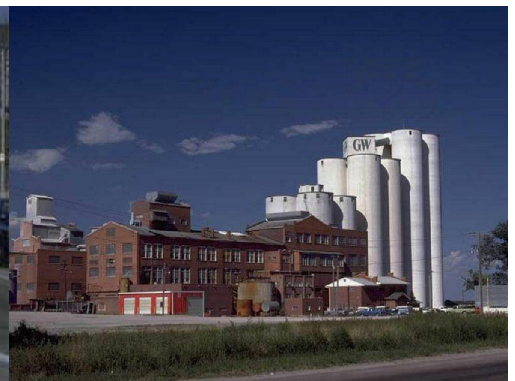
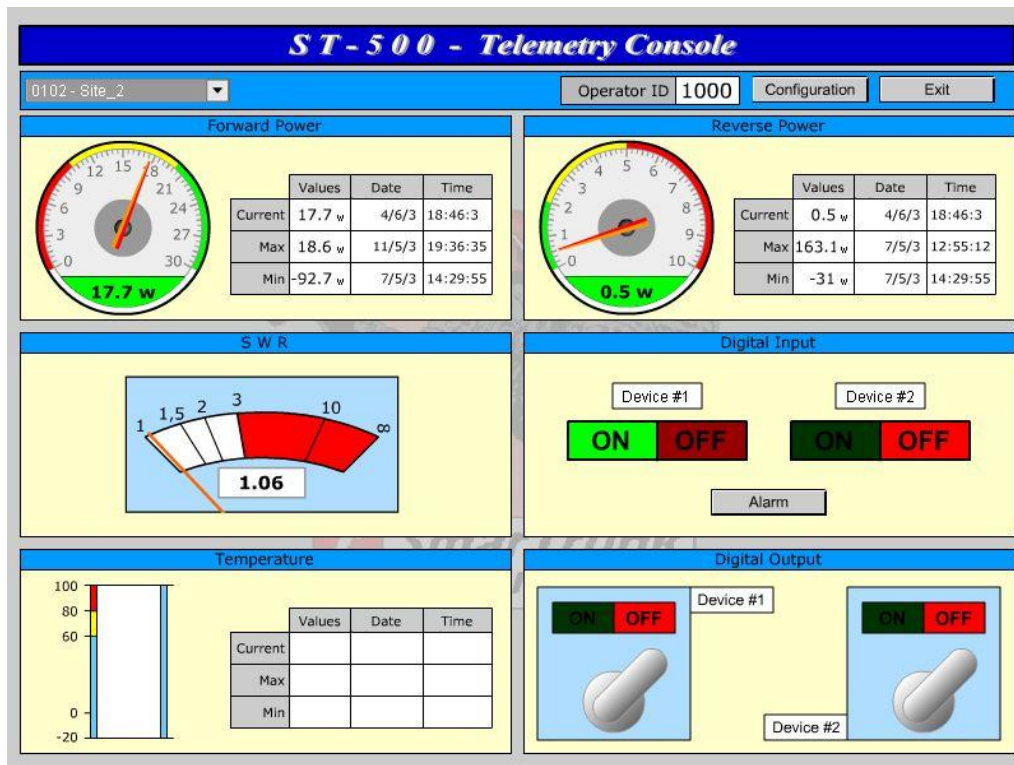


... Features once thought only available from wireless carriers.

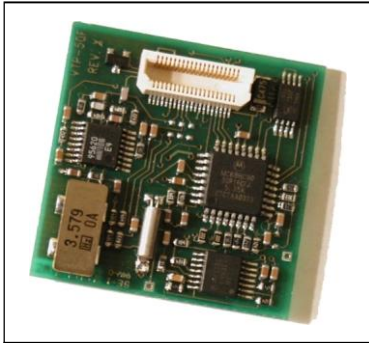


The ST-100N Multiplexer is used to link a remote ST-853 controller to the ST-510 switch. One is required per remote channel. At the ST-510 side, ST-422 Multifunction Interface Cards provide the gateways to the link(s) and therefore the remote ST-100N(s).

- Simplifies linking requirements.
- ST-853 audio and data transfer can be done over "voice grade" circuits
- Allows many linking options (leased lines, spread spectrum, microwave, T1/E1, RF phone line extenders etc.)
- Voice-over-IP coming soon!
- Fast voice/data switching
- Built-in remote site telemetry ports (4 analog, 2 digital in, 2 digital out)
- Analog input range is between 0 and 12VDC (adjustable)



SmarTrunk Logic Board Features:



For SmarTrunk compatibility, a Logic Board is added into the option board section of most brand-name radios.

- Banks of PTT talk groups
- Banks of trunked and conventional frequencies
- Block decode for monitoring multiple groups
- Memory dialing of radios, groups or PBX/PSTN numbers
- Last number redial
- Different ring tones for different types of calls
- Clear channel alert when one becomes available
- Conventional and SmarTrunk operation possible for talk-around
- Two levels of remote radio kill for disabling illegal radios
- Voice inversion encryption on some models
- Automatic site registration upon power-on or site change
- Scroll through last 10 calls received & return call with simple PTT

SmarTrunk II™ Product List

Logic Boards - Portables

ST-865IC	ICOM ICF3/F4; F3S/F4S; F3GS/F4GS; F3GT/F4GT; F30/F40GT/GS
ST-866ICF	3G Ready --Icom ICF3/F4; F3S/F4S; F3GS/F4GS; F3GT/F4GT; F30/F40GT/GS
ST-866ICFS	3G Ready --Icom ICF3/F4; F3S/F4S; F3GS/F4GS; F3GT/F4GT; F30/F40GT/GS
ST-865KW2	Kenwood TK-270/278/370/378
ST-865KW4	Kenwood "G" Series: TK-260G/270G/272G/278G/360G/370G/372G/378G; TK2160/3160
ST-865M	Motorola GP88/GP300/GP350
ST-865M3	Motorola GP-68
ST-865M4	Motorola P1225
ST-865M5	Motorola PRO Series: PRO5150/7150/9150; HT750/1250; GP140/328/338
ST-865M6	Motorola PRO3150/CT250/CD450/P040/P080/GP308
ST-865VTP50A	Vertex VX210/210A; VX400/600/800/900; VX110/150
ST-865VT60F	3G Ready --Vertex VX400/600/800/900
ST-865VT60FS	3G Ready --Vertex VX400/600/800/900

Logic Boards - Mobiles

ST-865IC	Icom IC-F1000/F2000; IC-F310/320/410/420 (Icom UT-105)
ST-866ICF	3G Ready --Icom IC-F1000/F2000; IC-F310/320/410/420
ST-866ICFS	3G Ready --Icom IC-F1000/F2000; IC-F310/320/410/420
ST-865KW2	Kenwood TK-760/768/860/868
ST-865KW4	Kenwood "G" Series: TK-760G/762G/768G/860G/862G/868G
ST-868-05	Motorola M216/GM300
ST-868M350	Motorola GM350; GM950/950E/950Plus
ST-865M4	Motorola M1225
ST-865M5A	Motorola PRO3100/5100/7100; CDM750/1250/1550; GM140/160/338/398
ST-868SM	Standard GX-1608
ST-868-05	Tait T-2000 Series
ST-868-04	Telemobile TM-MDT25
ST-868-01	Vertex FTL-1011/2011/7011; VX-2000/3000U/3000V (Vertex P/N VTM-20)
ST-865VTP50A	Vertex VX4000
ST-865VT60F	3G Ready --Vertex VX-3200/4000/4100/4200
ST-865VT60FS	3G Ready --Vertex VX-3200/4000/4100/4200

Trunking Controllers

ST-853CI	SmarTrunk II Enhanced Trunking Controller with Caller ID
ST-853 E&M	SmarTrunk II Enhanced Controller with E&M Interface
ST-853AUS	SmarTrunk II Controller meets AUSTEL (Australian) Specifications