# Davicom installation @DEX







### Who is G.S. Broadcast/Oakwood?

- 1. Equipment Reseller
- 2. Station maintenance
  - 3. Systems Integrator

(Radio Studios, Radio and Television Transmitters)





#### Davicom Installation

- 1. System Planning
- 2. Off-site prep work
- 3. Installation process
  - 4. Check lists
- 5. Tips, Ideas & Something different





## System Planning

#### MAC Unit 1 - Master I/O Board 1

Metering - Card AA		Status In - Card AA	Command - Card AA	
1A1 TX A Forward Power	1D	1 TX A On Air	1R1 Select TX A On Air	

#### MAC MEXM-1 I/O Board 1

Metering - Card CC	Status In - Card CC	Command - Card CC	
1MA1 Generator Fuel Level	1MD1 Generator Fuel Containment Alarm	1MR1 i-Low Fuel Warning	
1MA2 Coax Line Manifold Pressure	1MD2 Dehydrator Alarm	1MR2	
1MA3 Coax Line Manifold Air Flow	1MD3	1MR3	
1MA4 Remote Control 24 Volt Supply	1MD4	1MR4	
1MA5	1MD5	1MR5	
1MA6	1MD6 Fan Alarm	1MR6	
1MA7	1MD7 Temperature Alarm	1MR7 KLZ Logger Skim	
1MA8	1MD8 Smoke Detector Trouble	1MR8 i-Program Not Normal	
1MA9	1MD9 TX Room Smoke Alarm	1MR9 i-Program Fault	
1MA10	1MD10 HVAC Summary Alarm	1MR10 Audio Switching Auto/Man	
1MA11	1MD11 APTX 1 Silence / APTX 1 IP Rx Alarm	1MR11 APTX 1 Automatic Switching Disabled	
1MA12	1MD12 APTX 2 Silence / APTX 2 IP Rx Alarm	1MR12 APTX 2 Automatic Switching Disabled	
1MA13	1MD13 Bell TV Silence	1MR13 Bell TV Automatic Switching Disabled	
1MA14	1MD14 KLZ Logger Silence	1MR14	
1MA15	1MD15 iPod Silence	1MR15 iPod Automatic Switching Disabled	
1MA16	1MD16 Off-Air 96.3 Silence (F)	1MR16	
1MA17	1MD17 APTX 1 Selected	1MR17 APTX 1 Select	
1MA18	1MD18 APTX 2 Selected	1MR18 APTX 2 Select	
1MA19	1MD19 Bell TV Selected	1MR19 Bell TV Select	
1MA20	1MD20 KLZ Logger Selected	1MR20 MT Logger Select	
1MA21	1MD21 iPod Selected	1MR21 iPod Select	
1MA22	1MD22 Off-Air 96.3 Selected	1MR22 Off-Air Select	
1MA23	1MD23 Main / Standby Processor into TX A	1MR23 Select Main Processor	
1MA24	1MD24 Main / Standby Processor into TX B	1MR24 Select Standby Processor	

1D28	Generator Alarm	1R28	i-MAC Local
1D29	Generator Battery Fault	1R29	i-MAC Call Out Disabled
1D30	Surge Suppressor Fault	1R30	Entry Alarm Siren
1D31	Engineer On Site	1R31	Entry Pre Alarm
1D32	Front Door Open	1R32	Building Entry Alarm





#### Site Equipment & Sensors

Transmitters, Hydro Transfer Switches, Generator, Fuel Tank Level indicator, Ventilation systems, Audio Switchers, Silence/AES Detectors, UPS, Voltage Samples, Hydro Surge Protector, Dehydrator, Antenna Coax Line Pressure, Antenna Coax Air Flow, STL equipment, Fire Detection Panels, Temperature Sensors, RF Load, PPM Encoders and Monitors, Liquid Sensors, RF Power meters, Tower Light Controllers, Lightning, Detectors, DA Frames, Modulation Monitors





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### System Planning

- 1. System Size Before you order your Davicom do a system layout to determine the size of unit you need
  - 2. Location of Davicom I/O Panel

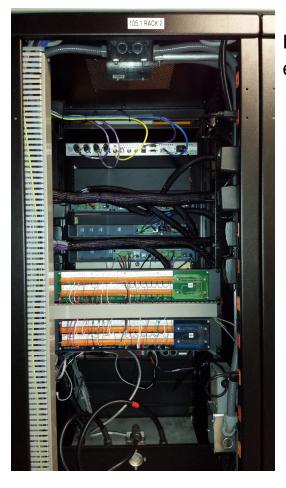




#### I/O Panel Location

Wall Cabinet





Back of equipment rack



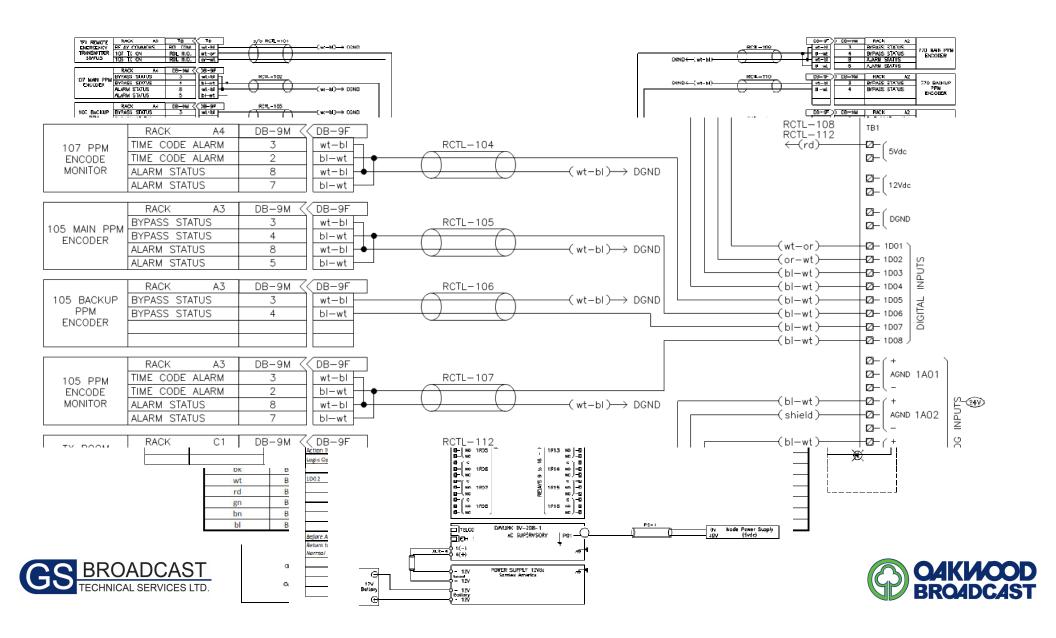


### System Planning

- 1. System Size Before you order your Davicom do a system layout to determine the size of unit you need
  - 2. Location of Davicom I/O Panel
    - 3. Documentation
      - Wirelists
      - Drawings
      - Etc.







## Off-Site prep work

- 1. Program the Davicom
- 2. Pre-make any assemblies that will be required
- 3. Pre-make cable harness
- 4. Why not build the whole site!!!







#### Site Installation

- 1. Cable Pull & termination
  - 2. Sensors installation
  - 3. Programing changes
    - 4. System Testing
- 5. Update Documentation





## Site Installation

#### MAC Unit 1 - Master I/O Board 1

Metering - Card AA		Status In - Card AA		Command - Card AA
1A1 TX A Forward Power	1D1	TX A On Air	1R1	Select TX A On Air
1A2 TX A Reflected Power	1D2	TX A RF On	1R2	TX A RF On
1A3 TX A PA Volts	1D3	TX A Wattmeter VSWR	1R3	TX A VSWR Reset
1A4 TX A PA Total Current	1D4	TX A Fire Shunt Trip	1R4	TX A RF Off
1A5 TX A Exhaust Temperature	1D5	TX A Summary Alarm	1R5	TX A Reset
1A6 TX B Forward Power	1D6	TX A Preset 1	1R6	TX A Preset 1
1A7 TX B Reflected Power	1D7	TX A Preset 2	1R7	TX A Preset 2
1A8 TX B Exhaust Temperature	1D8	TX A Interlock Open	1R8	1000000000 N
	1D9	TX A Exciter A / B	1R9	TX A Exciter A / B
	1D10	TX A Ext Alarm - Audio, I-L, Ethernet	1R10	TX A Increase Power
	1D11	TX A High Temperature Alarm	1R11	TX A Decrease Power
	1D12	TX A High Reflected Power Alarm	1R12	MAC BDT Start
	1D13	TX A IPA/PA Fault Alarm	1R13	MAC BDT Stop
	1D14	TX A AC Power Alarm/Power Supply Alarm	1R14	MAC BDT Failsafe
	1D15	TX B On Air	1R15	Select TX B On Air
	1D16	TX B RF On	1R16	TX B RF On

#### MAC Unit 1 - Master I/O Board 2

Metering - Card BB	Status In - Card BB	Command - Card BB
1A9 TX B PA Volts	1D17 TX B Summary Alarm	1R17 TX B RF Off
1A10 TX B PA Total Current	1D18 TX B High Reflected Power Alarm	1R18 TX B Reset
1A11 Transmitter Room Temperature	1D19 TX B Interlock Open	1R19 i-Gen Test Week 1
1A12 Outdoor Temperature	1D20 TX B AC Power Alarm	1R20 i-Gen Test Week 2
1A13	1D21 TX Auto Change Enabled	1R21 TX Auto Change Enabled
1A14 Phase 1 Voltage	1D22 RF Load Run	1R22 RF Load Run
1A15 Phase 2 Voltage	1D23 RF Load Overheat	1R23 Generator Test Start
1A16	1D24 On Hydro	1R24 Generator Test Stop
N 1 W	1D25 On Generator	1R25
	1D26 Hydro Fail	1R26 i-MAC Programming Not Auto
	1D27 Generator Running	1R27 i-MAC Alarms
	1D28 Generator Alarm	1R28 i-MAC Local
	1D29 Generator Battery Fault	1R29 i-MAC Call Out Disabled
	1D30 Surge Suppressor Fault	1R30 Entry Alarm Siren
	1D31 Engineer On Site	1R31 Entry Pre Alarm
	1D32 Front Door Open	1B32 Building Entry Alarm

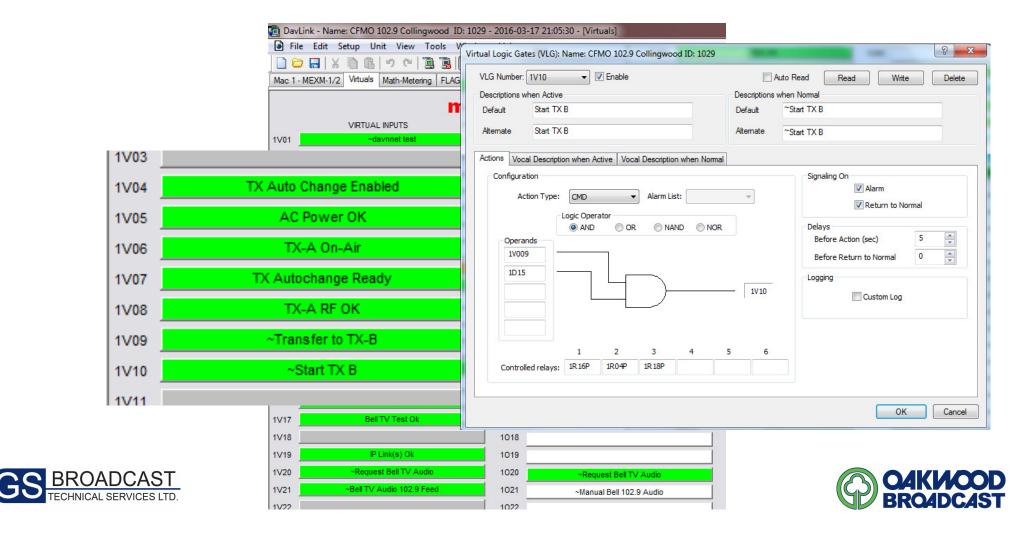




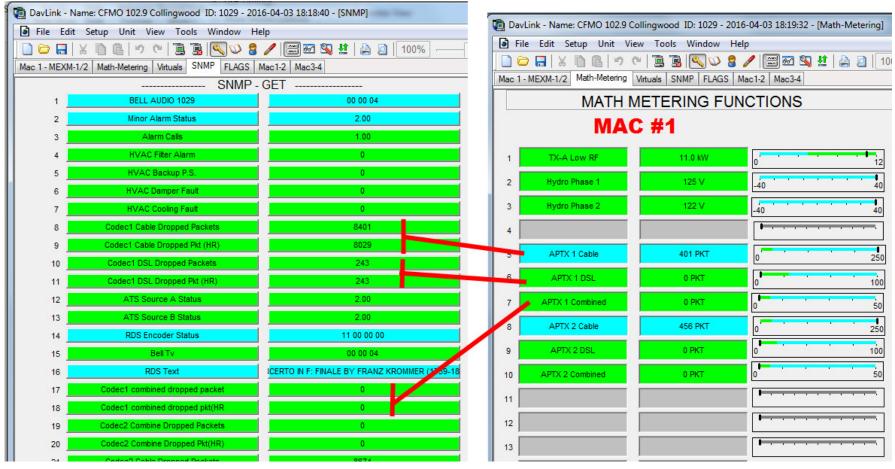
#### Tip!



### Virtual Logic Gates



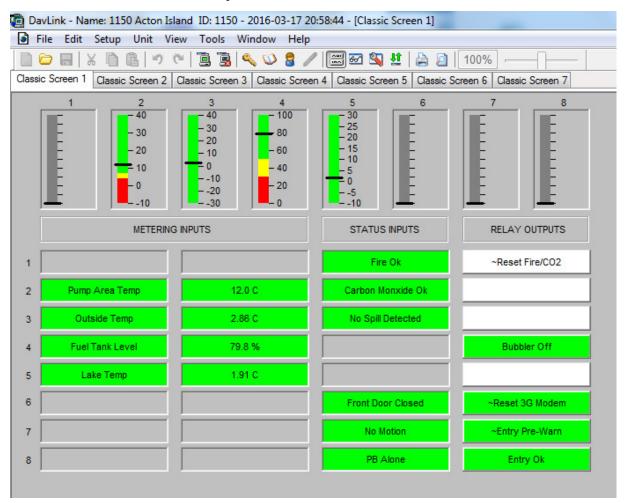
#### **SNMP**







#### Where can you install a Davicom







## Questions





#### Thank you!!

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