



NAD CI DSP AMPLIFIERS IP CODES

Protocol TCP/IP
Port 52000

Notes

- 1.The Amplifier is used as a TCP server with port 52000.
2. Input/Output Channels vary by model. NAD CI16-60V1/2 has Line Inputs 1-16, CI8-120V1/2 has Line Inputs 1-8, CI8-150V1/2 has Line Inputs 1-8 plus, opt1=9, opt2= 10. coax1=11 coax2= 12
3. Line Inputs Automatically pair when selected to a Zone. When selecting Input 1, Input 2 will also be assigned, selecting Input 3 will also assign Input 4, and so on.
4. Each Digtiti input on the CI8-150 is already stereo so automatic pairing does not apply
5. 8 channel models have 4 Zones, 16 channel models hav 8 zones, these are labelled in parameters as follows [0=ZONE A, 1=B, 2=C, 3=D, 4=E, 5=F, 6=G, 7=H]

OPERATION TYPE	FUNCTION	HEX CODE	COMMAND PARAMETERS	QUERY RETURN VALUES	NOTES
UNIT INFORMATION					
QUERY	DEVICE NAME	FF 55 01 E0	None	Return Value:"Device Name"	ALL MODELS
QUERY	DEVICE MODEL	FF 55 01 E1	None	Return Value:"Devic Model"	ALL MODELS
QUERY	PROJECT NAME	FF 55 01 E2	None	Return Value:"Project Name"	ALL MODELS
QUERY	CONTACT NUMBER	FF 55 01 E3	None	Return Value:"Contact Number"	ALL MODELS
QUERY	INSTALLATION DATE	FF 55 01 E4	None	Return Value:"Installation Date"	ALL MODELS
QUERY	FIRMWARE VERSION	FF 55 01 E5	None	Return Value:"Firmware Version"	ALL MODELS
QUERY	SERIAL NUMBER	FF 55 01 E6	None	Return Value:"Serial Number"	ALL MODELS
COMMAND	IDENTIFY UNIT (FLASH LED ON)	FF 55 02 EB 01	None	None	ALL MODELS
COMMAND	IDENTIFY UNIT (FLASH LED OFF)	FF 55 02 EB 00	None	None	ALL MODELS
COMMAND	FACTORY RESET UNIT	FF 55 01 FB	None	None	ALL MODELS
NETWORK SETTINGS					
QUERY	IP ADDRESS	FF 55 01 ED X1 X2 X3 X4	None	Return Value: X1.X2.X3.X4 Hexadecimal	ALL MODELS
QUERY	IP SUBNET ADDRESS	FF 55 01 EE X1 X2 X3 X4	None	Return Value: X1.X2.X3.X4 Hexadecimal	ALL MODELS
COMMAND	TURN DHCP ON	FF 55 02 EC 01	None	None	ALL MODELS
COMMAND	TURN DHCP OFF	FF 55 02 EC 00	None	None	ALL MODELS
OPERATIONAL INFORMATION					
QUERY	MAIN UNIT TEMPERATURE	FF 55 01 19	None	Return Value:"Main Unit Temperature:xxC"	ALL MODELS
QUERY	MAIN UNIT OPERATIONAL STATUS	FF 55 01 1A	None	Return Value:"Amplifier Status:	ALL MODELS
QUERY	FAN SPEED STATUS	FF 55 02 1B [P1]	P1:[0-1] 0=Left Fan, 1=Right Fan;	Return Value:"Fan Left/Right; Off/Low/Medium/High"	ALL MODELS
POWER SETTINGS					
QUERY	POWER ON/OFF STATUS	FF 55 01 70	None	Return Value:"Power Status:On/Off"	ALL MODELS
COMMAND	POWER ON	FF 55 01 01	None	None	ALL MODELS
COMMAND	POWER OFF	FF 55 01 02	None	None	ALL MODELS
COMMAND	POWER TOGGLE	FF 55 01 03	None	None	ALL MODELS
COMMAND	SET POWER METHOD	FF 55 02 F8 [P1]	P1:[0-3] 0 = Power Button, 1 = Always On, 2 = 12V trigger, 3 = Signal Sense	None	ALL MODELS
COMMAND	SET ECO MODE ON/OFF	FF 55 02 F9 [P1]	P1:[0-1] 0 = ECO mode off; 1= ECO mode on	None	ALL MODELS
COMMAND	SET START-UP DELAY TIME	FF 55 02 FA [P1]	P1:[0-10] delay time, map to 0,2,4,6,8,10,12,14,16,18,20s	None	ALL MODELS
INPUT/OUTPUT					
QUERY	LINE INPUT GAIN	FF 55 03 F1 [P1] F6	P1:INPUT [1-16]	Return Value:"Input [1-16] Gain:[-6,6]"	ALL MODELS
COMMAND	SET LINE INPUT GAIN	FF 55 03 F2 [P1] [P2]	P1:INPUT [1-16]; P2:[0-24] vol,map to [-6,6]	None	ALL MODELS
QUERY	INPUT STEREO/MONO	FF 55 03 F5 [P1] F6	P1:INPUT [1-16]	Return Value:"Input [1-16] Stero/Mono:[0,1]"	ALL MODELS
COMMAND	SET INPUT STEREO/MONO	FF 55 03 F5 [P1] [P2]	P1:INPUT [1,3,5,7]; P2:[0,1] 0 = STEREO, 1 = MONO	None	ALL MODELS
QUERY	OUTPUT BRIDGE MODE ON/OFF	FF 55 03 F6 [P1] F6	P1:OUTPUT [1-16] (1-8 ON 8 CHANNEL MODELS)	Return Value:"Output [1-16] Un Bridged/Bridged:[0,1]"	ALL MODELS
COMMAND	SET OUTPUT BRIDGE MODE ON/OFF	FF 55 03 F6 [P1] [P2]	P1:OUTPUT [1,3,5,7] CH; P2:[0,1] 0 = UN-BRIDGED, 1 = BRIDGED	None	ALL MODELS
QUERY	OUTPUT DSP PRESET	FF 55 03 F3 [P1] F6	P1:OUTPUT [1-16] (1-8 ON 8 CHANNEL MODELS)	Return Value:"Channel[1-16] Preset Number:[0-15]"	ALL MODELS
COMMAND	SET OUTPUT DSP PRESET	FF 55 03 F3 [P1] [P2]	P1:OUTPUT [1-16]; P2:DSP PRESET [0-15]	None	ALL MODELS
QUERY	OUTPUT TEMPERATURE STATUS	FF 55 03 FE [P1] F6	P1:OUTPUT [1-16] (1-8 ON 8 CHANNEL MODELS)	Return Value:"Channel[1-16]; Temp:xxC"	CHANNEL TEMP STATUS NOT AVAILABLE ON V1 MODELS
QUERY	OUTPUT PROTECTION STATUS	FF 55 03 FF [P1] F6	P1: OUTPUT [1-16] [1-8 ON 8 CHANNEL MODELS]	Return Value:"Channel[1-16]; ProtectStatus:OK/CLIPPING/OVERTEMP/OVERCURRENT/DC ERROR"	ALL MODELS
QUERY	GLOBAL INPUT GAIN	FF 55 03 EF [P1] F6	P1: GLOBAL A/B [0,1] 0= GlobalA, 1= GlobalB; P2: [0-24] vol,map to [-6,6]	Return Value:"Global A/B, InputGain:[-6,6]"	ALL MODELS, CI16-60 ONLY HAS GLOBAL A.
COMMAND	SET GLOBAL INPUT GAIN	FF 55 03 EF [P1] [P2]	P1:[0,1] 0= GlobalA, 1= GlobalB; P2:[0-24] map to [-6 to +6 in 0.5dB increments]	None	ALL MODELS
COMMAND	SET GLOBAL INPUT ON/OFF	FF 55 03 F0 [P1] [P2]	P1: [0] 0= GlobalA ; P2: [0,1] 0=off, 1=on	None	CI16-60V1 ONLY
ZONE INFO AND SETTINGS					
QUERY	ZONE MUTE STATUS	FF 55 03 1C [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; MuteStatus:[0,1]"	ALL MODELS
COMMAND	SET ZONE MUTE ON/OFF	FF 55 03 1C [P1] [P2]	P1:Zone A-H [0-7] MUTE [0,1] 0 = Mute, 1 = Unmute	None	ALL MODELS
QUERY	ZONE SLEEP TIME	FF 55 03 1E [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; SleepTime:0/1/2/3"	ZONE SLEEP FUNCTION NOT AVAILABLE ON V1 MODELS
COMMAND	SET ZONE SLEEP TIME	FF 55 03 1E [P1] [P2]	P1:Zone A-H [0-7]; P2:[0,1] 0 = Off, 1 = 15s, 2 = 30s, 3=1min;	None	ZONE SLEEP FUNCTION NOT AVAILABLE ON V1 MODELS
QUERY	ZONE GLOBAL A ON/OFF	FF 55 03 22 [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; GlobalAStatus:[0,1]"	ZONE GLOBAL ON/OFF NOT AVAILABLE ON CI16-60 V1 MODELS
COMMAND	SET ZONE GLOBAL A ON/OFF	FF 55 03 22 [P1] [P2]	P1:Zone A-H [0-7]; P2:[0,1] 0 = On, 1 = Off;	None	ZONE GLOBAL ON/OFF NOT AVAILABLE ON CI16-60 V1 MODELS
QUERY	ZONE GLOBAL B ON/OFF	FF 55 03 23 [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; GlobalAStatus:[0,1]"	ALL MODELS, CI16-60 ONLY HAS GLOBAL A.
COMMAND	SET ZONE GLOBAL B ON/OFF	FF 55 03 23 [P1] [P2]	P1:Zone A-H [0-7]; P2:[0,1] 0 = On, 1 = Off;	None	ALL MODELS, CI16-60 ONLY HAS GLOBAL A.
QUERY	ZONE ON/OFF STATUS	FF 55 03 20 [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; SleepStatus:[0,1]"	ZONE SLEEP FUNCTION NOT AVAILABLE ON V1 MODELS
COMMAND	SET ZONE POWER ON/OFF	FF 55 03 20 [P1] [P2]	P1:Zone A-H [0-7]; P2:[0,1] 0 = On, 1 = Off;	None	ZONE SLEEP FUNCTION NOT AVAILABLE ON V1 MODELS
QUERY	ZONE INPUT	FF 55 03 21 [P1] F6	P1:Zone A-H [0-7]	Return Value: "Zone A-H [0-7]; Input:[1,16]"	ALL MODELS
COMMAND	SET ZONE INPUT	FF 55 03 21 [P1] [P2]	P1:Zone A-H [0-7]; P2:Input [1,16]	None	ALL MODELS
QUERY	OUTPUT ZONE	FF 55 03 FD [P1] F6	P1:CHANNELS [1-16] 8 CHANNEL MODELS [1-8]	Return Value:"Channel[1-16] Zone:[0-7]" 8 CHANNEL MODELS [0-3]	ALL MODELS