

Basic installation and

Ver 1.2 20070928 configurations

Quick Guide

Deltanode DAS

Health and safety warnings

- system and should be handled by skilled Deltanode DAS system is an advanced staff.
- More added here



Connections





Mains Connector

- Mak
 as b
 Ground
 Phase
 Zero
- Mains Connector weatherproof type
- Make sure to connect as below



Connector types

- Optical connector: dual fiber inlet with SC/APC cut.
- Optic boards are used in the Remote Unit Ethernet: RJ45 connector If two Fiber you need to have an RJ45 splitter to separate into 2 ethernet channels.
 - Antenna: Type N
- connector. Mains: 3 pole C14 connector Ext alarn: 9-pole IP67 D-sub female



Welcome to FOR

|--|

- Type IP adress 168.192.0.201 to access FOR if the PC is connected to the Remoteunit
 - First page after log-in
- Webserver for the remote unit is in the FOR (Fiber optic Remote)



Manually configured, remote over fiber



Alternative IP adress 192.168.1.150 Default GW 192.168.1.201

IP adress 192.168.1.201 Default GW for Remote Located at FOI



IP adress 10.0.34.8



Opto, Status

 Shows values at FOR board

 RF signal level uplink shows uplink power into the laser diode.



Opto, Settings

Elle Edle View Favorie Stadt - 🕥 💌	- Microsoft Internet Explorer		×
3ad - 6) - 2	arthes Ioois Liep		**
	💌 🙋 🎊 🖉 Sawath 🙀 Favoritan 🗐 😂 👼 🗃 - 🔜 🏭 🕉		
2021 201/ CHILL 010.00	/102/01/20	9	Linko *
-2 - IX	💌 Sawon Wee 🔹 🌽 🐨 📾 Maal 🔹 🖓 Nahool 🔹 🦞 Fanzany Sports 👻 🖗	ootball • 📦 Games •	**
Delta Node Momana	Opto Gain/Att. Settings		
RF Units 1 05M 1900	Parameter Value Status		
Lynts	Gan Downlink [29.5] db		
Advanced Topical	Gain uptirk 20 db		
19100141	RF CH YM © NO O		
	Submit I		
		No. of the local sector of the	
g-bin/contat		C Internot	-

- Set FOR board gain measured as opto signal in and RF signal out to VGA and vice versa for uplink
 - Max 20 dB
- 0,5 dB steps



Opto, Testpoints

	ł.	Go Litio "	"			1
		1	· @ Games -			D Inturnot
			G Footbal			
			V Fantasy Sports			
	2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3		- Internet with -			
	E 1		- 19941ES @ - 1			
lorer	entres		1 E -		Ro Ba-E	
rnet Expl	and Yr		- delv row	atus	Value 11117 V CLI 111 V CLI 111 V CLI 111 V CLI 111 1112 V CLI 111 V CLI 111 V CLI 111 V CLI 111 1112 V L CLI 111 V	
crosoft Intel	Took Hep	/102		Opto st	Technologic Technologic Participation Technologic Participation Review Review Review	
Board - Mic	View Ferortes	41 //142 1/201 2		Node		
₫F.O.R.	File Edit -	Actroc of	1. 1.	Delta	IR Lunis (S) Number Administration	Done

Testpoints at the FOR Board



Opto, Link status

In. Co Co Vanada Co Vanada - Co Ala Vanada - Co Vanada	Burdh Yr Fannia, S.		antisky Sports • 😪 Football • 🤤 Games						
	The set of	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	🗐 - 🍁 - 🙆 🔤 Mail - 🕲 My Yahool - 🦞 Fa	nication link status	T2:AL:06.10.10.44 URABIONED -L0 MMa 9 dam	au	 	000 -	-

Shows status of the communication link on the fiber



RF Unit, RF status

use () He was not not the second of the seco	Search W Rf Status Countifick Start frequency Start frequency	Pab - 🏈 🖬 - 🕼	calimaii 🔹 🕲 hy Yahool 👻 Pantasy Sports	8
Yr · · · Delta Norle monsten eno	Search W Rf Slatus Duvolick Start frequency Stop frequency	Pab - 🖉 🖬 - 🕼	🖅 Mail 🔹 🕲 My Yahoot 🔹 🖞 Fantasy Sports	
Delta Nocle monanen et una 16º sona erto sona	Rf Slatus Dowellek Start frequency Stop frequency	Current value:		s - Gerocoal - 📦 Games -
information B Units 1 of * * **** OPTO 19 Saturda OPTO 19 Saturda Ventras	Downlink Start frequency Stop frequency	Current value:		
PE Units 1 Gen 2000 DPTO Venta Reamced	Start frequency Stop frequency	A REAL PROPERTY AND A REAL PROPERTY A REAL PRO	Unit:	
PPTO 10 Sunda Wents Mannced	Stop frequency	1930 00000	Mtr	
verits	A REAL PROPERTY AND A REAL	1990.00000	Mic	
dumced	RF BDK	12.0	41m	
	Eat call	1000 K0.0		
	Max cain	20.0		
and the second se	Gan	30.02		
Carlo and American	Output power		dDm	
The second secon	UDINK 1	Current value:	Crite	
A THE A PARTY	Start frequency	1850.00000	AH7	
	Stop frequency	1910 00000 0191	10 r	
and the second s	RF link	of	したというないないないのである	
	ALC threshold	0.0	dbm	
	Sot gain	40.0	68	
	Max quin	0.0.4	db	
and the second s	Gen	0.02	99	
Alter Tendence	Output power	A support of the support of the	dam	
	Reland			
	Periodic			

- Status menu
- Shows measured values at the remote's RF parts



RF Unit, RF Config

remaine 🧐 🔗 👼 🗷 - 📑 🛍 🍣		o - 🖉 🖥 - 🏨 - 🔘 Galital - 🕲 My Yahood - 🦞 Fantasy Sports - 😪 Football - 🥝		of value: New value: Unit:	000	32.0 (dbm)		nt valuer Rev value) Undo 40.0	0.0 dtm	300									
Edit Zjaw Fgyortan Iook Lap Back - 🙄 🔌 🙆 🏠 🔎 Saardi 🚀	/102 07051 201// child 😰 200	T - 2-	elta Node contrk	matten Parameter Curren	nits 1 Gs rann	ALC Revel ALC Re	Lbink 1	Connection Contract	ALC HIM	HNV ALC Invest	set uplinit in on O or a	Submit	Eel		and the second se				

- Set RF gain downlink (from FOR board output to antenna connector) max ~80 dB
 - Set RF gain uplink (from antenna connector to FOR board input) max ~50 dB
- Set ALC threshold in dBm for downlink
- Set threshold is related to the antenna connector for the downlink ALC. The signal level corresponds to output from VGA for uplink



RF Unit, Hardware

A bord tautorite Terraria de la curración de la curación de la curración de la curración de l	RF uplies 0	Incut voltado 124/70 v	Test borkt dit Current volun Urbit	v()a hoard to stoorts	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description of the second seco	Configuration ld: Current ualue Units] they /1400 1560 2017	• 🖸 📓 🖏 🖉 Sauch 🛠 Faraita 🕹 🗟 • 😓 🗷 - 🗾 🛍 🕉		Contrast for a contra
	Margine 12 off - Of the photomer 0 0 OL to generative 0 0 U. to generative 0 0	FU distribution OP - FU distribution 0 - L1 distribution 0 - L2 distribution 0 - L3 distribution 0 - L4 distribution - -	Mathematical Lation C Department Lation C Department C C	The point of the point of the point of the point of the poin	Via tovot tis stort tis Tree port di Tree	Tento Tento <th< td=""><td>The second is a second in the second is a second is second is second is second is a second is a second is a s</td><td>■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Explored ■ Nordel ■ Nordel Explored ■ Nordel ■ Nordel Explored ■ Nordel ■ Norde</td><td>1000 Hole Image: Second seco</td><td></td><td>Americ Automani</td></th<>	The second is a second in the second is a second is second is second is second is a second is a second is a s	■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Community Longwardtin ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel ■ Nordel Explored ■ Nordel ■ Nordel Explored ■ Nordel ■ Nordel Explored ■ Nordel ■ Norde	1000 Hole Image: Second seco		Americ Automani
	Distribution off - Distribution - -	Professional of a constraint o	Mathematical Laboration C Mathematical Laboration Laboration Laboration	The power of the contract volume of the contr	Via towa traditorits Terrescense Terrescen	Monte Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td>Terret is to the state of the stat</td><td>Image: Section time in the section of the section</td><td>Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data)<</td><td></td><td>UL 2 los detector</td></thcon<></thcontrol<></thcontrol<>	Terret is to the state of the stat	Image: Section time in the section of the section	Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data) Image: Arrow recta Data)<		UL 2 los detector
Number Image Image Number 2000 0 Number 2000 0	RF uplie 2 uff	Presenting of the second se	Part vettage 12.0/10 0 Part vettage 12.0/10 0 Part vettage 0 ^{eff} 0	Tare point di Tare point di Parameterza Currence value (beh) Parameterza Currence value (beh)	Vial toword in efforcts The solute of a Current wellow in the Current wellow in the Current wellow is the Curr	Weat 1 and the section DA dB AD Uper 1 and the section (DA	Teacher Teacher <t< td=""><td>Image: Source were stated in the state of the state o</td><td>Image: Processor of the second sec</td><td></td><td>DL log detector</td></t<>	Image: Source were stated in the state of the state o	Image: Processor of the second sec		DL log detector
May Attribution a dfme 0.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		It dominication of the second	Instruction 124/0 0 Instruction 124/0 0 Profession 124/0 0 Profession 0 0	Terr sent di Terre sent di Immersion Current cellini (beh) Privation 212,00 0,000,00 0,00 0,000 Privation 0,00 0,000 0,000	Visit Rowof the Stron Crts The power distribution The power distribution of the strong distribution of	Matching Direct Structure Direct Structure <thdirect structure<="" th=""></thdirect>	Constraint Constra	▲ ▲ ▲ ● ▲ ● </td <td>Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO CML CML Imp. //WO CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML<td></td><td>P.F. uplick 2</td></td>	Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO CML CML Imp. //WO CML Imp. //WO KEAD CML Imp. //WO KEAD CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML Imp. //WO CML Imp. //WO CML Imp. //WO CML Imp. //WO CML CML <td></td> <td>P.F. uplick 2</td>		P.F. uplick 2
Configuration (c) Current structure	Configuration (c) Current calue Unit Configuration (c) Current calue Current calue Configuration (c)	Configuration (c) Configuration (c) <thconfiguration (c)<="" th=""> Configuration (c)</thconfiguration>	Configuration (c) Curring control Currin c	Configuration (b) Currents - administration Currents -	Configuration (d) Configuration	Configuration (c) Configuration (c) Constitute instrumention		2- 😺 Severi Vae - 2 🐻 - 4 - 0 🖼 HAM - 10 HA Vahool - 4 Famany Sports - 6 Footaal - 3 Gammas -	j the product 2011 🖉 and of the control of the con		Common link configuration
NUMB Community configuration Community configuration Co	Nonde Community Long quait Community Long quait Configuration Configuration Configuration	Norde Communities configuration Contraction of configuration Configuration	Nordeletic Communities configuration Contraction	Nonde Contract Nondeatin Contract Nondeatin Contract Nondeatin	Norofe Contract the configuration C	a NJOJE continuente configuration Configuration Configuration	a Node commute origentian] http://rec.1660.201/	1 0 - - -	Search Web - 🖉
000 n		A 048	N Link		10 01 00	0.9 db	Unit		. E	2 0000 200	Gurrenc color Currenc color Currenc color

- Shows factory set configurations
- Shows testpoints



Advanced, Network settings

		Back • • • • • • • • • • • • • • • • • • •	Search W Search W Betworr Parameter Padrass Domain name Domain nam	ob - ∠ = + • • • • • • • • • • • • • • • • • •	Laboration Contraction Contrac	hy varon - A Fantany S
			Search W Betwort Presenter Parameter Danan name Danan n	00 - 2 (1 - 1) k Settii hyv met 101,195 10	© Enhall • © Value submit	Apy Vancel - Y Fentuary S
		· e.	Search W Networ Parameter Notiviane Notiviane Danian Ame Danian Ame Daniana Ame Danian Ame Da	bb - ∠ (1 + 4) k Setti 10: 195 13: 160 0. 201 13: 160 0. 201 14: 16: 16: 16: 16: 16: 16: 16: 16: 16: 16	C CIANI - C	Vy Yarool - V Fantuar S
		alta Mente	Network Perameter Hottname Domain name Die DHOP for ETHO Cale Ip for ETHO Gatwary IP Address	K Settii (cr.198 by mt 192 un 0 201 vs 0 to 0 to 0 to 0 2 255 255 0	Value	eteres and a second sec
		mation	Parameter Hostname Domain name Domain name De DHOP for ETHO Calcip for ETHO Gateway IP Address Nethnask	[co:1985 bgw met 192. 168. 0. 201 ∀es O No O Yes O No O 255. 255. 265. 0	Value	ten en e
		nts 1 GSM 1900 P	Peremeter Hothame Danain name Danain name Danain name Calcip for ETHO Calcip for ETHO Gataway IP Address Methadk	for:1985 bgv. met 192. 160. 0. 201 Yes ⊖ No ⊙ Yes ⊖ No ⊙ 255. 255. 255. 0	Value submit	lans
			Hostname Domain name IP Address Use DHCP for ETHO Calc ip for ETHO Gatawar IP Address Netmask	Lor:1985 Lor:1985 1927 met 1927 met 1927 160 0.201 Yes O No O Yes O No O 255. 255. 255. 0	submit	
		• •	Domain name IP Address Use DHCP for ETHO Calc Ip for ETHO Gataway IP Address Netmask	bgv.net 192.168.0.201 Yes О но ⊙ Yes 0 но ⊙ 255.255.255.055.0	Submit	
Database 192-140-0.201 De Det Per Ferre No.0 De Det Det Det Det Det Det Det Det Det D		nced -	IP Address Use DHCP for ETH0 Calc ip for ETH0 Gataway IP Address Netmask	192.168.0.201 Yes O No O Yes O No O 255.255.255.0	Submit	
			Use DHCP for ETHO Calc ip for ETHO Gateway IP Address Netmask	Yes O No O	Submit	
			Calc ip for ETHO Gateway IP Addrass Netmask	Yes O No O	Submit	
			Gataway IP Address Netmask	255.255.255.0	Submit	
Memorie 255: 255: 0	Jose 201 0	- In and and	Netmask	255.255.255.0	submit	П
			The second second		Submit	
]	
			A new work and the second seco			
		1				

- Enter IP settings for the Remote unit 192.168 series When BGW is used
 - When BGW is used set DHCP and Calc IP in "Yes"



Advanced, ETS netw setup

		0.201/ Search web + 2/ 13+ 4+ 6 (2Mail + 60/ V	hool • V Fantaev Sports • (A Football • 19 C	Co Co
	Jelos Node				
	ormation	Fiber Network Settings			
	Units 1 GSM 1900 +				
	10	Parameter Value Status			
	ants b	Use DHCP for ETS Yes O No O			
	Anced	IP Address [10.0.34.8			
		Gateway IP Address 10.0.34.1			
		Netmask 255.255.254			
	and the second s	Submit			

Enter IP settings for the Fiber optic network 10.0 series When BGW is used





Advanced, Adv netw settings



Advanced, HW units setup



Configuration of the Remote, factory set



Quick Guide to get started with DAS without BGW

All units have has a WEB interface that you access through a WEB browser, The unit has no DHCP client so the computer that is locally connected must also be configured to have a pre defined static IP Address.

By setting a fixed IP Address in the computer in the same range as the fixed address of the System you can type the units IP address in your browser and log in. (After the timeout your computer will assign itself the selected fixed Address)

The DAS Node has as a factory set 192.168.0.201. This can be changed in the WEB interface. If you get lost you can reset the IP Address to the default by pressing the reset button on the connection board of the Repeater for about 5 seconds.

Enter the IP Address in the browser and hit return, Log in to the Repeater



Click Properties of your LAN connection in the Control panel.

🗕 Local Area Connection Prope ? 🔀
General Authentication Advanced
Connect using:
Intel(R) PRO/100 VE Network Conne
This connection uses the following items:
 ✓ Signature ✓ Client for Microsoft Networks ✓ ② QoS Packet Scheduler ✓ ✓ AEGIS Protocol (IEEE 802.1x) v3.1.6.0 ✓ ✓ Internet Protocol (TCP/IP)
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 ✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity
OK Cancel

Click properties on the TCP/IP protocol and set the alternative configuration

Internet Protocol (TCP	/IP)Properties ? 🔀
General Alternate Configuration	
If this computer is used on more than one network, enter the alternate IP settings below.	
O Automatic private IP address	
<u>I</u> P address:	192.168.0.150
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	· · ·
Preferred DNS server:	· · ·
Alternate DNS server:	
Preferred <u>W</u> INS server:	
Alternate WI <u>N</u> S server:	
	UK Cancel