

TELESTE AC 810

1.2 GHZ OPTICAL NODE

Der AC810 ein Node mit 2 aktiven Ausgängen entwickelt für FTTLA-Lösungen.

- DOCSIS 3.1 bereit: 204/1218 MHz
- Verwendet GaN HEMT und GaAs pHEMT Technologie
- Fernspeisung mit PFC
- Optionaler 3. Ausgangsport
- Optimierte Glasfaser- und Spleiß-Anordnung im Deckel
- Effizienter ESD- und Überspannungsschutz
- FP, DFB und CWDM Upstream Laser Optionen
- Integriertes Leistungs-Monitoring
- Integrierter Mikrocontroller ermöglicht echte Plug-and-Play Installation: OLC Funktion mit Temperaturkompensation, optische Eingangsleistungsmessung und lokale Warnmeldung mit LED, HF-Leistungsmessung für beide Ausgänge und lokale Warnmeldung mit LED, optischer Übertragungs-Laser-Strommessung, Versorgungsspannungsmessung, Temperaturmessung und Übertragung aller Alarme und Messwerte zum Headend

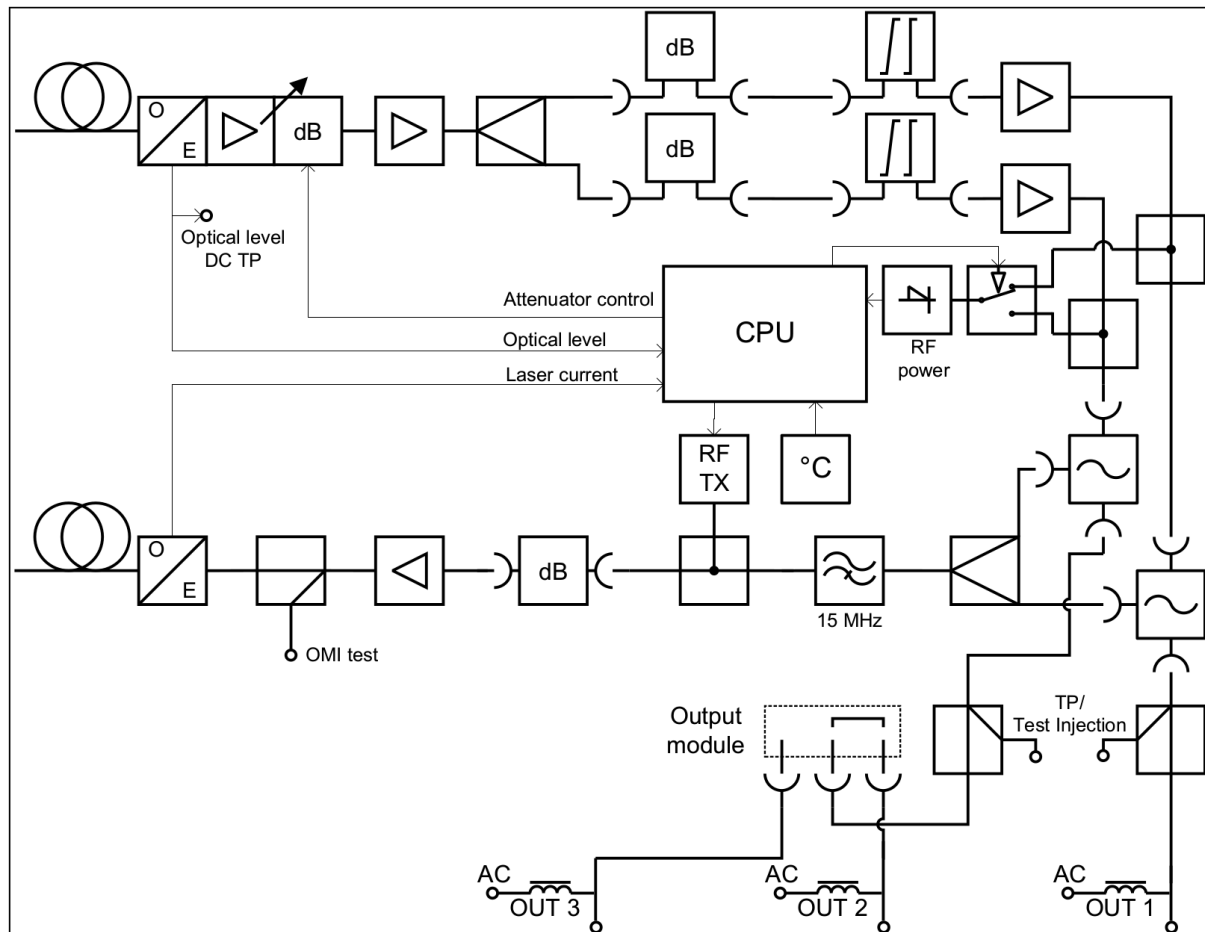


SPEZIFIKATIONEN

DOWNSTREAM SIGNAL PATH		
Light wavelength	nm	1290...1600
Optical input power range	dBm	-8...-2
Frequency range	MHz	85...1218
Return loss	dB	18
Gain limited output level	dBμV	2 x 117.5
OLC control range	dB	12
Gain adjustment	dB	20
Mid-stage slope	dB	14
Flatness	dB	±0.4
Test point	dB	-20
Transponder connection	dB	-19
Noise current density	pA/√Hz	6.0
Umax(112 QAM channels) @ 1.0 GHz	dBμV	111.5
Umax(138 QAM channels) @ 1.2 GHz	dBμV	108.5
CTB 41 channels	dBμV	116.0
CSO 41 channels	dBμV	116.0
UPSTREAM SIGNAL PATH		
Frequency range	MHz	5...204
Return loss	dB	18 @ f > 15 MHz
Ingress switching	dB	0 / -6 / < -45
OMI TP	dB	-10
CINR	dB	> 48
Filtering, high pass	MHz	15
DATA TRANSMITTER		
Data carrier frequency	MHz	10.7
Modulation method		FSK, 38400 bps
Channel bandwidth	MHz	0.4
Transmitter level	dBμV	60
MEASUREMENTS		
Optical power measurement inaccuracy	dBm	< 0.5
RF output power measurement inaccuracy	dB	< 2
Temperature measurement inaccuracy	°C	< 2

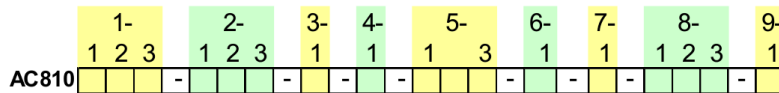
GENERAL		
Power consumption (65 & 90 / 230 VAC)	W	36.0 / 38 W
Supply voltage AC	V	27...65 / 40...90 / 205...255
Maximum current feed through	A	7.0 / port
Hum modulation	dB	70
Optical connectors		SC/APC 8 degrees
Output connectors		5/8" or 3.5/12" (PG11 hole at housing)
Test point connectors		F female
Dimensions (h x w x d)	mm	245 x 255 x 145
Weight	kg	4.5
Operating temperature	°C	-40...+55
Class of enclosure		IP 54
EMC		EN50083-2
ESD	kV	4
Surge	kV	6 (EN 60728-3)

BLOCKDIAGRAMM



BESTELLINFORMATIONEN

AC810 configuration map



1-1 Platform type
B Standard 1.2 GHz
1-2 Power supply
A Local powering, euro plug (230 VAC)
B Remote powering with cable clamp (65 VAC)
C Remote powering with cable clamp (90 VAC)
H Customer specific option 1
1-3 Fiber organicing
C Standard fibre organiser (optical input at lid)
D AC800 FTTLA Upgrade kit (No lid+fibre organizer incl.)

2-1 Output 1 connection (first from right)
A PG11
B 5/8"
C IEC
D 3.5/12
E F
2-2 Output 2 connection
A PG11
B 5/8"
C IEC
D 3.5/12
E F
2-3 Output 3 connection (first from left)
A PG11
B 5/8"
C IEC
D 3.5/12
E F
X None (closed port)

3-1 Reserved for future
X None

4-1 Diplexer filters
A 65/85 MHz (2 x CXF065)
B 85/105 MHz (2 x CXF085)
C 204/258 MHz (2 x CXF204)
X None

5-1 Return path transmitter (+ 3 dBm)
40 FP 1310 nm (+1 dBm)
DFB 1310 nm
CWDM 1450 nm
47 CWDM 1470 nm
49 CWDM 1490 nm
51 CWDM 1510 nm
53 CWDM 1530 nm
CWDM 1550 nm
57 CWDM 1570 nm
59 CWDM 1590 nm
61 CWDM 1610 nm
5-3 Optical connectors
D SC/APC, 8 deg.

6-1 Optical filter
F1 1551 add / drop filter, SC/APC 8 deg.
XX None

7-1 Reserved for future
X None

8-1 Forward path mid-stage plugs
A 2 x JDA903 + 2 x TNE020 (1.2GHz)
B 2 x JDA901 + 2 x TFE820 (862MHZ)
C 2 x JDA901
X None

8-2 Return path input plug
A JDA900

8-3 Output 2 splitter
A 0 dB (AC6120)
B 2-way splitter (AC6124)
X None

9-1 Reserved for future
X None